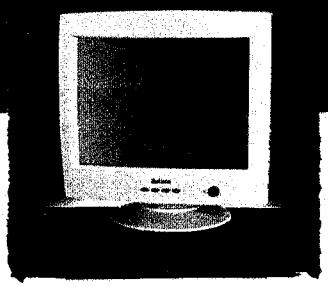
Belinea



Color Monitor
Service Manual

[10 30 35]

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1 Precautions

Follow these safety and servicing precautions to prevent damage and to protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1-1-1 Warnings

1. For safety purpose, do not attempt to modify the circuit board, and always disconnect the AC power before performing servicing on the monitor.
2. Operation of the monitor outside its cabinet or with the cover removed involves the risk of shock hazard. Repair work on the monitor should only be attempted by service personnel who are thoroughly familiar with all necessary safety precautions and procedures for working on high voltage equipment.
3. Do not lift the CRT by the neck. After completely discharging the high voltage anode, handle the CRT only when wearing shatterproof goggles. Try to keep the CRT away from the body during handling.
4. High voltage should always be kept at the rated value, no higher. Only when high voltage is excessive are X-rays capable of penetrating the shell of the CRT. Operation at high voltages may also cause failure of the CRT or high voltage circuitry.
5. The CRT is especially constructed to limit X-ray emission to 0.5mR/HR at 300 microamperes anode current. To ensure continued X-ray protection, replace the CRT with only the same or equivalent type as the original, and adjust the anode's voltage to the designated maximum rating, never to exceed.

1-1-2 Safety Checks

Before returning the monitor to the user, perform the following safety checks:

1. Inspect to make certain that each lead dress is not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. AC Leakage Current Check

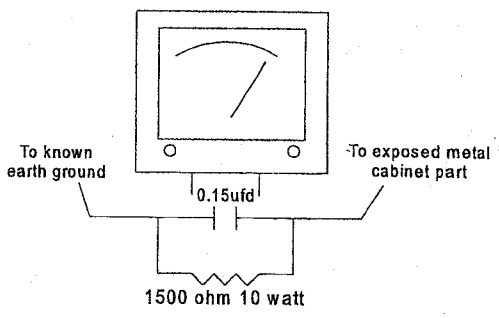
   Always perform the AC Leakage Current Check on the exposed metal parts, including metal cabinets, screwheads and control shafts, as follows:

   a) Plug the AC line cord directly into a rated AC outlet. Do not use an isolation transformer during the check.

   b) Use an AC voltmeter with at least 5000 ohms per volt sensitivity as follows:

   Connect a 1500 ohms, 10 watt resistor paralleled by a 0.15uF AC capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduct or electrical ground connected to earth ground, as shown in the Figure 1-1. Measure the AC voltage across the combination of resistor and capacitor.

Figure 1-1. Set Up For AC Leakage Current Check



   c) Reverse the AC plug at the AC outlet and repeat the steps for AC voltage measurements for each exposed metal part.

   d) Voltage reading must not exceed 0.3 volts RMS, equivalent to 0.2 milliampere AC. Any value exceeding this limit ill constitute a potential shock hazard and must be corrected immediately.

1-1-3 Product Safety Notices

Many electrical and mechanical parts in this chassis have special safety-related characteristics which are often not evident from visual inspection, the protection afforded by them may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Before replacing any of these components, consult the Recommended Spare Parts List given at the end of this manual. Any of the replacements that do not provide the same safety characteristics may result in shock, fire, X-ray emission or other hazards.

1-2 Servicing Precautions

Warning: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before performing servicing covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions

1. Follow closely the servicing precautions printed on the monitor cabinet and chassis.
2. Always unplug the AC power cord from the AC power source before removing or installing any component or assembly, disconnecting PCB plugs or connectors and connecting a test component in parallel with a capacitor.
3. When replacing parts or circuit boards, clamp the lead wires around the component before soldering.
4. When replacing a high wattage resistor (>0.5W metal oxide film resistor) in the circuit board, keep the resistor about 1 cm (1/2 inch) away from the circuit board.
5. Keep wires away from the high voltage or high temperature components.
6. Keep wires in their original positions so as to minimize interference.
7. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

> After putting the rear cover back and make sure the monitor is working properly, the Hi-Pot & Ground Continuity tests **MUST BE** performed before the monitor is returned to user.

1-3 Hi-Pot Test

1. Test Equipment

   Puncture test model PM5530 ADT or KIKUSU TOS-8750 voltage tester or equivalent approved equipment.

Note : The test equipment must be calibrated in regular period.

2. Test Setup
   a) Apply voltage : DC 2100 VDC
   b) Test duration : 3 seconds
   c) Cutoff current should be set to 3 mA
3. Test Procedure
   a) Unplug power cord from AC source.
   b) Put the power switch of the monitor in the "ON" position.
   c) Leave signal cable un-connected.

d) Plug monitor power cord to the Hi Pot tester terminals.

e) Turn on tester and watch the indicator or beeper.

f) If the indicator lamp lighten, or beeper beeps, the test fails.

1-4 Ground Continuity Test

1. Test Equipment

   AC low ohm tester TOS-6100 or equivalent approved equipment.

Note : The test equipment must be calibrated in regular period.

2. Test Setup

   a) Test duration : 3 seconds

   b) Set current limit at 25 A

   c) The grounding resistance must be less than 0.1 ohm.

3. Test Procedure

   a) Plug the monitor power cord to the tester terminals.

   b) Make sure all connections are well-contacted.

   c) Turn on monitor power and tester power.

   d) Press "Test" button.

   e) If green light shows up, means test OK.

      If red light shows up, means test fails.

   f) If the Tester has a digital display, the resistance value must not exceed 0.1 ohm.

Note : Be sure not to touch the metal portion of the signal cable head during testing.

2 Product Specifications

2-1 Specifications

Picture Tube	17-inch (15.8-inch Visual image area), sloted mask, 90 degrees deflection, dot type black matrix, medium short persistence phosphor, dark tint, non-glare/ anti-static screen
Scanning Frequency	VGA, Super VGA, 1024x768@60/70/75/85 Hz, 1280x1024@60 Hz
Maximum Resolution	1280 dots (H) x 1024 lines (V) @60Hz refresh rate
Display Area	300 mm (H) x 225 mm (V) typical
Display Characters	80 char. x 60 rows on a 10 x 10 matrix
Display Colors Analog Input	Unlimited Colors
Synchronizatin Signals	Separate Sync: horizontal/vertical, TTL, positive or negative
Synchronization Frequencies	Horizontal : 30 to 70 kHz Vertical : 50 to 160 Hz
Signal Connectors	15-pin, D-shell connector
Video Signals	Analog : 0.7 Vp-p, RGB positive
Power Input	100 Watts (maximum) AC rated voltage, 100VAC to 240VAC
Misconvergence	Center Area : $\leq$ 0.3 mm; Corner Area : $\leq$ 0.4mm
User Controls	Power On/Off, Contrast, Brightness, Horizontal Size, Horizontal Position, Vertical Size, Vertical Position, Pincushion, Trapezoid, Rotation, Color temperature, Language, Display Frequency, Degauss, Recall, H. Moire, V. Moire
Service Controls	PWB-1526 : R-bias (VR901), G-bias (VR931), B-bias (VR961), PWB-1519/1539 : power voltage adjust (VR801), high voltage adjust (VR401), focus1, focus2
Preset Modes	13 (see Table 2-2. Timing Chart)
Environmental Considerations	Operation temperature : 5°C to 40°C ambient Operation Humidity : 20% to 80% ambient Storage temperature : -40°C to 65°C ambient Storage Humidity : 5% to 95% (non-condensing) Altitude : up to3000m above sea level

Note: Above specifications are subject to change without prior notice.

2-2 Signal Cable Pin Connections

Table 2-1. Signal Cable Pin Assignment

Pin	Signal	Pin	Signal
1	Red video	9**	PC
2	Green video	10	Digital Ground
3	Blue video	11	Ground
4	Ground	12	SDA
5*	NC	13	H-Sync
6	Red ground	14	V-Sync/VCL
7	Green ground	15	SCL
8	Blue ground		

Note: * This pin is used for selftest detection. Connect this pin to ground at the PC end.

** For PC99 : this pin will provide +5V from PC side.

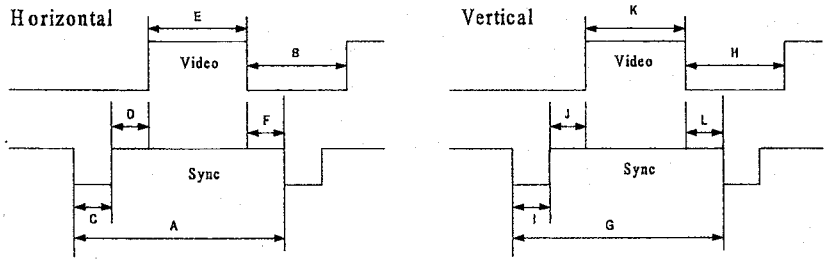
2-3 Timing Chart

This section describes the timings that the computer industry recognizes as standard for computer-generated video signals.

Table 2-2. Timing Chart

Mode	1	2	3	4	5	6	7	8	9	10	11	12	13
H. Dots	720	640	640	800	640	640	800	1024	800	1024	1024	1280	1024
V. Dots	400	480	480	600	480	480	600	768	600	768	768	1024	768
H-freq (kHz)	31.47	31.47	35	37.88	37.5	43.3	46.8	48.36	53.67	56.48	60.02	64.34	68.68
Sync Polarity	-	-	-	+	-	-	+	-	+	-	+	+	+
A period us	31.78	31.78	28.57	26.4	26.666	23.111	21.333	20.68	18.63	17.71	16.66	15.55	14.56
B Blking us	6.356	6.356	7.407	6.4	6.35	5.33	5.172	4.923	4.409	4.053	3.657	3.589	3.725
C Sync us	3.81	3.81	2.116	3.2	2.03	1.556	1.616	2.092	1.138	1.813	1.219	0.972	1.016
D B.P. us	1.907	1.907	3.175	2.2	3.81	2.222	3.232	2.462	2.702	1.92	2.235	2.248	2.201
E Active us	25.42	25.42	21.164	20	20.32	17.778	16.162	15.75	14.22	13.65	13	11.96	10.836
F F.P. us	0.636	0.636	2.116	1	0.51	1.556	0.323	0.369	0.569	0.32	0.203	0.374	0.508
V-freq (Hz)	70.08	59.95	66.667	60.32	75	85	75	60	85	70.07	75.03	60	85
Sync Polarity	+	-	-	+	-	-	+	-	+	-	+	+	+
O Period ms	14.27	16.68	15	16.58	13.33	11.764	13.333	16.67	11.76	14.27	13.33	16.67	11.77
P Blking ms	1.557	1.43	1.286	0.739	0.533	0.67	0.533	0.786	0.578	0.673	0.533	0.642	0.582
Q Sync ms	0.064	0.064	0.086	0.106	0.08	0.069	0.064	0.124	0.056	0.106	0.05	0.047	0.044
R B.P. us	1.08	1.02	1.14	0.607	0.427	0.578	0.448	0.6	0.503	0.513	0.466	0.501	0.524
S Active us	12.71	15.25	13.714	15.84	12.8	11.093	12.8	15.88	11.18	13.6	12.8	16.03	11.18
T F.P. us	0.413	0.35	0.086	0.026	0.026	0.023	0.021	0.062	0.019	0.053	0.017	0.094	0.015

Seperate Sync



H.Parameters:

A: Period
B: Blanking Time
C: Sync Width
D: Back Porch
E: Active Time
F: Front Porch

V.Parameters:

G: Period
H: Blanking Time
I: Sync Width
J: Back Porch
K: Active Time
L: Front Porch

2-4 Display Power Management Signal (DPMS)

Note: These power-saving states exceed the Environmental Protection Agency (EPA) Energy Star requirements and the Video Electronics Standard Association (VESA) for Display Power Management Signal (DPMS) .

Table 2-3. Display Power Management Signal (DPMS)

State	LED Color	H-Sync	V-Sync	Power Consumption
ON	Green	Pulse	Pulse	Normal
STANDBY	Yellow	No Pulse	Pulse	<15 watts
SUSPEND	Yellow	Pulse	No Pulse	<15 watts
OFF	Amber	No Pulse	No Pulse	<5 watts

2-6 TCO Version (Optional)

The monitor meets the TCO 92, NUTEK energy saving, electric and magnetic field requirements. Also it is compliant with TCO 95/TCO 99 labelling scheme.

2-6-1 TCO 92 Version (Optional)

The emission from magnetic and electric field must comply with the limits specified by the Swedish Board for Measurement and Testing, commonly known as MPR 1990 recommendations. These limits are summarized in the Table 2-4.

Table 2-4. TCO 92 Requirements

	VLF/TCO	ELF/TCO
Magnetic Field	25 nT	200 nT
Electric Field	1 V/m	10 V/m
Frequency Range	2~400 kHz	5~2000 Hz
Value	RMS	RMS
Distance	30 cm	30 cm
Electrostatic Potential	+/- 500 V	+/- 500 V

The monitor is designed with selected CRT and carefully routed wires around CRT, make sure exactly the same routing scheme is used when doing CRT replacement.

2-6-2 TCO 95 Version (Optional)

The TCO 95 scheme is for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employ ees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industry and Technical Development in Sweden).

1) Scope

TCO 95 touches on ergonomic qualities, emissions (electrical and magnetic fields), energy efficiency and ecology (with demands for environmental adaptation for both the product and the production processes at the manufacturing plant).

2) Environmental Requirements

The monitor abides by the environmental demands concerning restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents, among other things. The monitor is also recyclable.

3) Energy Requirements

The monitor also follows the energy requirements that, after a certain period of inactivity, the monitor shall reduce its power consumption to a lower level in one or more stages.

4) Others

The monitor meets the strict environmental demands for the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

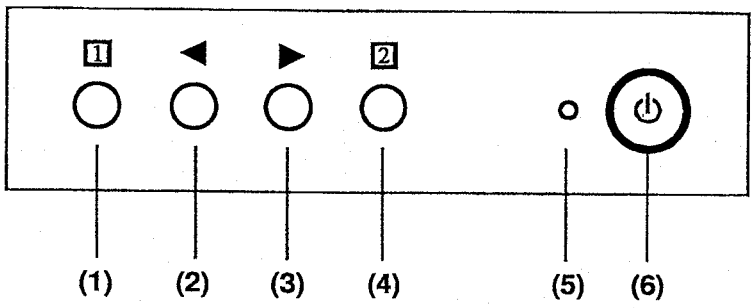
Table 2-5. TCO 95 Visual Ergonomics

Feature	Standard	Description
Linearity	1% or less	Difference in length of columns or rows compared to the corresponding lengths through the center of the monitor.
Display Luminance	100 cd/m2 (at least)	
Luminance Uniformity	1.7:1 or less	The ratio is between the max to min luminance within the whole active area.

2-6-3 TCO 99 Version (Optional)

TCO 99 will append the color temperature specification.

3 Control Location and Functions



(1) Function Key
(2) Decrease Key
(3) Increase Key
(4) Select Key
(5) Power LED
(6) Power ON/OFF

3-1 Front Panel

3-2 Front Panel Keys Functions

1. Function Key: Display the main menu, and exit the adjustment screen and save adjustments.
2. Decrease Key: Scroll across main menu, highlighting control to be adjusted. Decrease value of selected control. Toggle between Contrast and Brightness adjustment screens.
3. Increase Key: Scroll across main menu, highlighting control to be adjusted. Increase value of selected control. Toggle between Contrast and Brightness adjustment screens.
4. Select Key: Press once to display adjustment screen. Press again, for some controls, to toggle between controls shown in pairs on main menu.
5. Power LED: Display different modes (ON, Standby, Suspend or OFF) of the monitor by showing different color for each mode.
6. Power ON/OFF: To turn the monitor ON and OFF.

3-3 Adjustment Procedure

1. Press (6) key to turn on the monitor.
2. At normal condition, press (1)on the front panel to activate the on-screen manager (OSM) menu.
3. To select a user control, press (2) or (3) key repeatedly until the control is highlighted.
4. To adjust the value for a particular control, press (4), then press the (2) or (3) key to obtain the desired value. There are a few parameters that do not require any adjustment, like Manual Degauss, Memory Recall.
5. Some controls are grouped in pairs on the main menu. Press (4) key to toggle between them.
6. To save your adjustments and exit screen, press (1) key. The menu will automatically clear out from the screen if no keys are pressed within 30 seconds.

Note: To enter the "Internal Adjustment" mode, press (1) & (4) keys simultaneously then press (6).

4 Operation Theory

This is a fully digital controlled multi-sync color monitor that is compliant with DDC1/2B Plug and Play VESA standard and offers the following main features.

4-1 Main Features

1. Simplified design with minimum components.
2. The NOVATEK NT68P61AU processor-- that has I²C bus and PWM function controlled geometric correction, contrast and brightness-- offers the functions for: (a) Contrast, (b) Brightness, (c) H-size, (d) H-position, (e) V-size, (f) V-position, (g) Pincushion, and (h) Trapezoid.

   In addition, it also offers more functions as: (a) Sync. processor, I/P and O/P, (b) Mute, (c) Power saving - Suspend & Stand-By, (d) Power saving override, (e) DDC1/2B, (f) I²C Bus for auto-alignment through signal cable (g) CS1 switching for linearity and size compensation.
3. Stores up to 14 factory preset modes and offers 7 user modes. There are 16 function icons in OSD. They are controlled by [1] ◄ ► [2] keys on the front panel.
4. Powerful SAMSUNG KB2512 and NS LM1279AN present the following useful functions: (a) Pincushion, (b) Trapezoid, (c) V-Position, (d) V-Size, (e) Vertical's "C" and "S" correction -- factory adjust, (f) Pincushion's V. position correction, (g) Corner correction -- factory adjust, (h) Pincushion unbalance correction -- factory adjust, (i) Parallelogram distortion -- factory adjust, (j) Moire cancellation (k) X-ray protection, and (l) Full horizontal and vertical auto sync capability.
5. Software controlled auto shut off function activated if fH < = 29 kHz and fH > = 73 kHz.
6. Full range AC input and simplified line filter design.

4-2 Microcontrol Section

1. This monitor uses NOVATEK NT68P61AU CPU. It contains a 6502 8-bit CPU core, 256 bytes of RAM used as working RAM and stack area, 24k bytes of OTP ROM, 14-channel 8 bit PWM D/A converter, 2-channel A/D converters for key detection saving I/O pins, internal H. sync and V. sync signals processor providing mode detection, and an I²C bus interface. When H/V sync through D-Sub signal cable enter pin 41 and pin 42, the CPU performs frequency / polarity detection and calculate and send to H/V sync OUT. Then CPU reads the data from I703 and transfer to device KB2512 and some DAC in CPU, above operation takes about 500 ms.
2. There allows 14 factory preset modes and 7 user modes. There are 8 functions, Contrast, Brightness, H. Size, H. Position, V. Size, V. Position, Pincushion, and Trapezoid, all controlled by OSD icon which can be adjusted by user.
3. The pin 25 and pin 26 are used for ATE function. When CPU receives C6 as slave address, it will operate in ATE mode which is used for auto-alignment. After alignment the data will be stored in I703.
4. The user control parameters are selected by OSD icons, through [1] ◄ & ► [2] keys, they are detected by sensing the voltage through R710, R740, R743, R741 to pin 14 and 15 of I701.

4-3 Deflection Section

1. I²C -- autosync deflection controller is KB2512.
2. The KB2512 is a high performance and efficient solution for autosync monitors. All functions are controllable by I²C bus and PWM port. SDA and SCL signals coming from microprocessor feed to pin 31 and pin 30 to control all functions.

4-3-1 Horizontal Section

1. The oscillator is driven by the currents in R471. The oscillator frequency is determined by R471 and C449.
2. Horizontal sync goes into pin 1 through R422. And horizontal flyback pulse goes into pin 12 through Q438 and bypass filter C457 from Emitter of Q403 and C406, C407, C461, R407, D432, R404, R402 for AFC loop.
3. Horizontal driver (pin 26) output to Q401 via C403, Q401 switching to drive T401 provide IB1/IB2 current then turn on/off Q402 and switching the yoke current.

4-3-2 Vertical Section

1. Vertical sync goes into pin 2 through R448.
2. The free running frequency is determined by C438.

4-3-3 Vertical O/P section

1. The differential output currents from pin 23 of I401 can be directly coupled to the vertical deflection booster pin 1 of TDA8172.
2. The TDA8172 operate in combination with the deflection coil in a half bridge configuration.
3. This IC is powered by two sets of voltages. (+11.5V at pin 2, -11.5V at pin 4).

4-3-4 E-W/Trapezoid and H. Width Controls

1. The scan current is determined by B+ (the voltage of C470) that is obtained from step-up circuit output. Step-up circuit include Q405, R414, T403, D407, R411, R412.
2. I401 KB2512 pin 28 (B DRV) will drive the step-up circuit to change H. width.
3. EW DRV (pin 24) provides a complete EW drive waveform including parabola, corner and trapezoid correction and feed to BIN (pin 15 of I401) to get a good control for pincushion / trapezoid / corner.
4. The top and bottom corner correction can be adjusted seperately.

4-3-5 X-Ray Protection

1. To avoid X-ray hazard, a DC voltage generated at pin 6 of FBT and rectified by D417, C431 and go through R855, Q823 and ZD802 come into base of Q816 to control 12V switch transistor Q813.
2. If anode voltage is higher than 29KV, Q813 will be activated through Q816. After that all deflection circuit stop working.

4-3-6 G1, Blanking and Brightness

1. The vertical blanking signal comes from two ways. One is from pin 6 of I301 (TDA8172), the other is from vertical sync (pin 33 of I701). These two positive vertical pulses through Q421 amplified and converted into negative pulse and sent to G1 for vertical blanking.
2. In protection mode or an out-of- range situation, the mute will send 5 V pulse to saturate Q429 and cutoff Q420, then G1 will go down to -130V.
3. The brightness is controlled by CPU pin 3 through PNP transistor Q420. Q420 is a switch in conducted (ON) status normally. The lower or higher control voltage will get low brightness or high brightness.

4-3-7 Contrast Section

1. Contrast is controlled by I701 through pin 32 PWM to I501 (LM1279AN) directly.
2. Beam current is detected through T402 (FBT) pin 7, C432, Q418, VR402, R453, Q419 and detected voltage feeding into R505 to control I501 pin 10 voltage.

4-3-8 Dynamic focus circuitry

The dynamic focus is applied to improve the corner focus performance, it includes horizontal and vertical dynamic focus.

1. Vertical dynamic comes from I401 pin 10 and is amplified through C427, R450, Q414, R498 and feed to FBT dynamic focus pins.
2. This amplifier need 200V voltage supply, it comes from FBT pin 2 and rectified through L406, D414 and C426.
3. Horizontal dynamic comes from T405 through C476, R446 and feed to FBT dynamic focus pins.

4-4 Power Supply Section

4-4-1 AC Rectifier

The circuit can accept 90 V to 264 V AC input through D801~D804 bridge diodes and C808 filtering to get DC 126 V~364 V for power conversion in T802.

4-4-2 Line Filter

It consists of C801, C802, C803, C816, C820, C823, C807 and T801 and meets EMI regulation.

4-4-3 Power LED Status

1. The LED has 3 leads with common cathode to emit green and amber color light for different power saving states. It is controlled by CPU.
2. Normal : Green light

   Amber LED is off because CPU pin 18 is low nd pin 17 is high, only green LED is turned on.
3. Standby / Suspend : Yellow light

   CPU pin 17 and pin 18 are high, then green and amber LED are turned on. That is yellow.
4. Off Mode : Amber light

   CPU pin 17 is low and pin 18 is high, then green is off and amber is illuminated.

4-4-4 Auto Degaussing

When S801 turns on, pin 10 of I701 will send a signal to Q802 and turns on RL801 for degaussing. After 4 seconds, it will turn off RL801 automatically.

4-4-5 PWM Control

1. Start Up

   The I801 (MC3843) gets power from R847, R848, C806 and pin 7 voltage reaches 16 V for starting up. The I801 starts oscillation at 22 kHz, sawtooth on pin 4 and pin 6 output to drive Q803/T802. Once Q803 switching on, D806, C804 set up an 15 V to keep I801 working through D821 auxiliary voltage.
2. Regulation

The DC O/P voltage is proportional to the auxiliary voltage, so I801 pin 2 senses the feedback voltage from the divider R802, R823 and VR801 to compare with the built-in 2.5 volts reference voltage for error amplifier operation. Finally pin 6 can modulate the different duty cycle by VR801 setting to achieve regulation purpose.

4-4-6 Synchronization

1. Normal Mode

   The sync pulse from FBT (31 kHz~69 kHz) via C815, R826, D824, C814 and R816 to pin 4 of I801 to keep I801 synchronized with horizontal sync input frequency.

2. Power Saving Modes: Standby/Suspend

   Because there is no pulse from FBT, so the free-run frequency is decided by R816 and C814 and the feedback voltage change by Q822 and Q820, they are controlled by I805 and I806.

3. Override

   The horizontal free run frequency is about 62.5 kHz under override condition, SMPS is synchronized to this frequency.

4-4-7 O.V.P.

If the auxiliary voltage is higher than zener voltage ZD807 (18 volts) and makes pin 3 of I801 higher than 1 V, pin 6 duty cycle is limited to have the OVP activated.

4-4-8 O.P.P.

The excess current of T802 through R813, R865 and R864 can develop enough voltage on pin 3 then limit the power delivered because the pin 6 duty cycle is limited too.

4-4-9 High Voltage Generation with F.B.T.

1. The H. V generation circuit combines T402 F.B.T. with I402 TL494/KA7500 PWM control circuit.
2. When I402 Vcc(pin12) reaches at 5V, pin 5,6 gets a freerun sawtooth waveform about 25KHz, and approximately 9.5 Vp-p, when voltage at pin 15 is higher than pin 16 (5V reference) then release pin 3 to be controlled by pin 1 feedback signal and compare with pin 5 to output PWM.
3. HFLB1 is used to trigger pin 5 via Q412, to synchronize the deflection circuit.
4. PWM output will drive Q411 and T402 to gererate high voltage (25KV), T402 pin 11, 12 becomes DC/ AC feedback, with the voltage link to I402 non-inverting input pin 1 to stabilize H.V (25KV) and VR401 can be adjusted to control H.V value.
5. When X.R.P occur, Q813 will switch off the 12V for I402 and shut down PWM output.

4-5 Video Amplifier Section

1. RGB signal inputs are terminated by R525, R526 and R527 then pass through the coupling capacitors C502, C504 and C506 to IC501 LM1279AN preamplifier.
2. The amplifier RGB signals (0~3 Vpp) are adjusted by I^2C bus from I501, pin 11 is for clamp pulse which comes from pin 34 of I701 to set up equal clamp level.
3. The video output stages are amplified by Q963, Q964, Q903, Q904, Q933, Q934, Q962, Q965 Q902, Q905, Q932, Q935.4. The RGB cathodes cut off are adjusted by VR961, VR901 and VR931.
5. Under override condition, "CHECK SIGNAL" will show up on the screen.

4-6 OSD (On Screen Display) Circuit

1. The I502 HTV021-02 is OSD IC. The OSD signals are worked by positive vertical pulse from I701 pin 32 that goes through R521 to I502 pin 10, and positive horizontal pulse from HFLB1 through R513 to I502 pin 5. CPU I701 pin 27, 28 (I^2C bus) transfers information to I502 pin 7, 8.
2. The OSD R. G. B signals and blanking signal are terminated at I502 pin 15, 14, 13, and 12 to I501 pin 2, 3,4, and 1, then the OSD picture appears.

5 Alignments and Adjustments

This section of the service manual explains how to make permanent adjustments to the monitor settings.

5-1 General Adjustments

5-1-1 Adjustment Conditions

a) Power Supply

Apply AC 115 V or 220 V

b) Warm-up Time

The monitor must be powered on for 15 minutes before starting any alignment, but requires 30 minutes of warm-up time for convergence adjustment.

c) Signal Input

1. Video: RGB Analog, 0.7 Vp-p, positive
2. Synchronization: Horizontal and vertical TTL signal, separate, positive or negative
3. All adjustments should be made using a signal of FH = 68 kHz, FV = 85 Hz, unless otherwise defined.

5-1-2 Equipment Required

The following equipments are necessary for adjustment procedures:

1. Volt-ohm-A meter (Sanwa FD-750C or equivalent)
2. 30 kV high voltage probe (HP34111A)
3. Oscilloscope (TEK2235 or equivalent)
4. Minolta Color Analyzer II
5. Signal generator (IBM PC with proper display cards or Chroma 2000)
6. Screwdriver

5-1-3 Switching Power Supply and Regulator Adjustment

a. The regulated B+ control has been preset in the factory and needs no adjustment. However, if any repair is made on the power supply section, the following readjustment procedures are recommended:

1. Allow the monitor to warm-up for about 15 minutes.
2. Apply XGA (1024 x 768 @ 68 kHz/85 Hz) signal to the monitor.
3. Connect a DC voltage meter to R428-TP001 end, and adjust VR801 for 11.5 + 0.2/-0 V DC
4. If a fuse is broken during adjustment, remember to replace it with the exact same type of fuse.

b. If necessary, follow the following procedures to enter the factory mode.

1. Press both [1] key and [2] key simultaneously then power ON.
2. After turn the power off, monitor will go back to normal mode.
3. When you use ATE adjustment fixture, you should switch S705 to ATE (Factory) position, after you finish the adjustment, please switch S705 to DDC (normal) position to return to normal mode.

5-2 Alignment Procedures

5-2-1 High Voltage Adjustment

CONDITION

Display image : Crosshatch pattern

PROCEDURE

Connect DC meter to TP5 and adjust VR401 to obtain a DC voltage of -134 ± 0.2 V DC.

5-2-2 Screen and White Balance Adjustment

CONDITION

Press [1] and [2] buttons simultaneously when switching the power "On".

Bias VRs : VR961, VR901, VR931

Display image : No video

PROCEDURE

1 Raster color setting

1-a. Set brightness through OSD menu to -30 V at G1 and 560 V at G2.

1-b Adjust VR961, VR901 and VR931 to maximum.

1-c Adjust VR931 to raster just distinguish.

1-d Set brightness to maximun.

1-e Adjust VR901 to get x=280 ± 5 and VR961 to get y=280 ± 5, brightness = 0.9 ~ 1.2 FL.

1-f Adjust brightness to cut-off.

CONDITION

Display image : 50 mm x 50 mm white block pattern

PROCEDURE

2 6500°K color temperature setting

2-a Set Brightness to cutoff and Contrast to maximum.

2-b Move cursor on OSD to choose color temperature icon.

2-c Press [2] key to G gain then adjust G gain = 53 value, then adjust B, R to y=329±5, x=313±5.

2-d Check x=313±5, y=329±5.

3 9300°K color temperature setting

3-a. Set Brightness to cutoff and Contrast to maximum.

3-b Move cursor on OSD to choose color temperature icon.

3-c. Press [2] key to G gain then adjust G gain = 54 value, then adjust B, R to y=298±5, x=283±5.

3-d Adjust Contrast to set Y=43±2FL

3-e Check x=283±5, y=298±5.

3-f TCO99-model 9300°K color temperature setting y=298±5, x=283±5.

4 Full white ABL setting

CONDITION

Display image : full white pattern

4-a Set Brightness to cutoff and Contrast to maximum.

4-b. Adjust VR 402 to Y=29.5FL ± 1FL.

4-c. Check the white balance at 5FL and 28FL.

4-d. Repeat all the procedures in 5-2-2 section until the best white balance is obtained.

5-2-3 Focus Adjustment

CONDITION

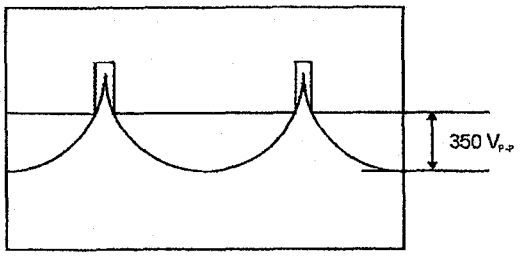
Display image : "e" character pattern

PROCEDURE

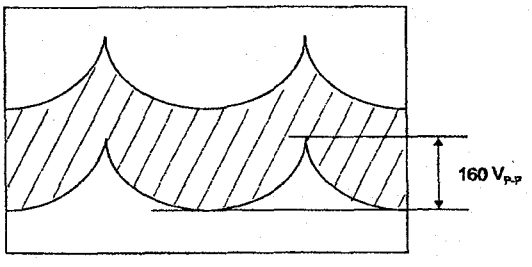
1. Set Brightness to cutoff and Contrast to maximum.
2. Adjust top VR at T402 (static focus VR) to make vertical line clear.
3. Adjust center VR at T402 (dynamic focus VR) to make horizontal line clear.
4. Repeat above procedures to get best focus.

5-2-4 Dynamic focus Adjustments

1. Horizontal dynamic focus fix at Hf=350V in phase (compare with Vcp signal).



2. Vertical dynamic focus fix at Vf=160V in phase.



5-2-5 Static Convergence Adjustments

Static convergence involves alignment of the red, blue and green lines in the center area of the display.

Note : The monitor requires 30 minutes warm-up time for convergence adjustment.

CONDITION

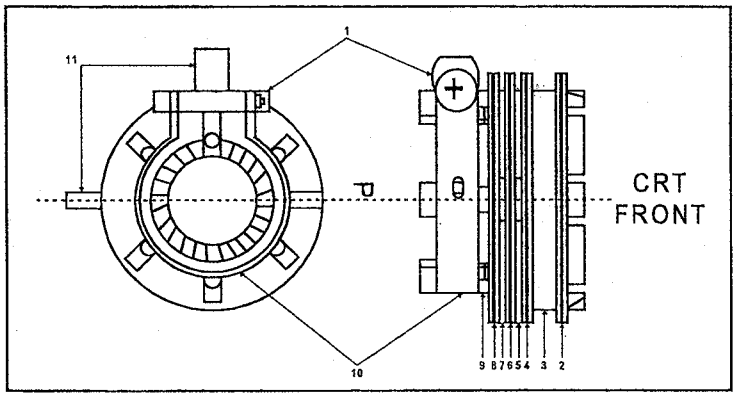
Display image : Crosshatch pattern

Warm-up Time : 30 minutes

PROCEDURE

1. Set brightness and contrast to display a well-defined pattern.
2. Ensure the convergence magnet rings are correctly positioned on the CRT.

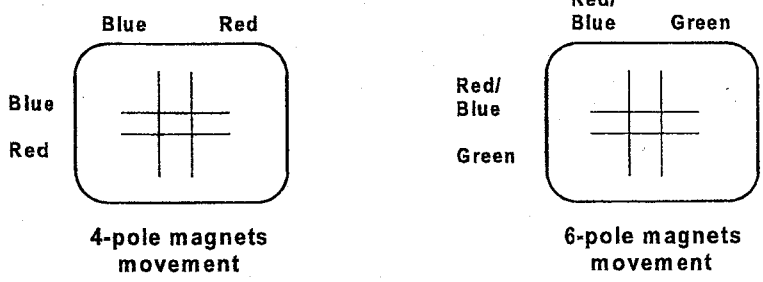
Figure 4-1. Convergence Magnets on the CRT



1) Setup Bolt	2) Bow Magnet	3) Band	4) 2-Pole Magnet
5) Spacer	6) 4-Pole Magnet	7) Spacer	8) 6-Pole Magnet
9) Holder	10) Band	11) Tabs	

3. Rotate the individual rings of 4-pole convergence magnets by changing the spacing between the 2 tabs to converge the vertical red and blue lines at the center of the screen.
4. Rotate the pair of rings of 4-pole convergence magnets by maintaining spacing between the 2 tabs to converge the horizontal red and blue lines at the center of the screen.
5. Rotate the individual rings of 6-pole convergence magnets by changing the spacing between the 2 tabs to converge the vertical red, blue and green lines.
6. Rotate the pair of rings of 6-pole convergence magnets by maintaining spacing between the 2 tabs to converge the horizontal red, blue and green lines.
7. Repeat the steps from 3~6 until the best convergence is obtained.

Figure 4-2. 4-pole and 6-pole Magnets Movement



Note : The 4-pole magnets and the 6-pole magnets interact, making dot movement complex.

5-2-6 Degaussing

Degaussing is required when poor color impurity appears on the screen. This monitor uses an automatic degaussing circuit that is activated when the power is on. The automatic degaussing will be fully functional again after the monitor has been in operation for 20 minutes.

The degaussing effect is confined to the picture tube since the coils are mounted at the back of the tube. Should any part of the chassis or cabinet becomes magnetized, it is necessary to degauss the affected area with a manual degaussing coil.

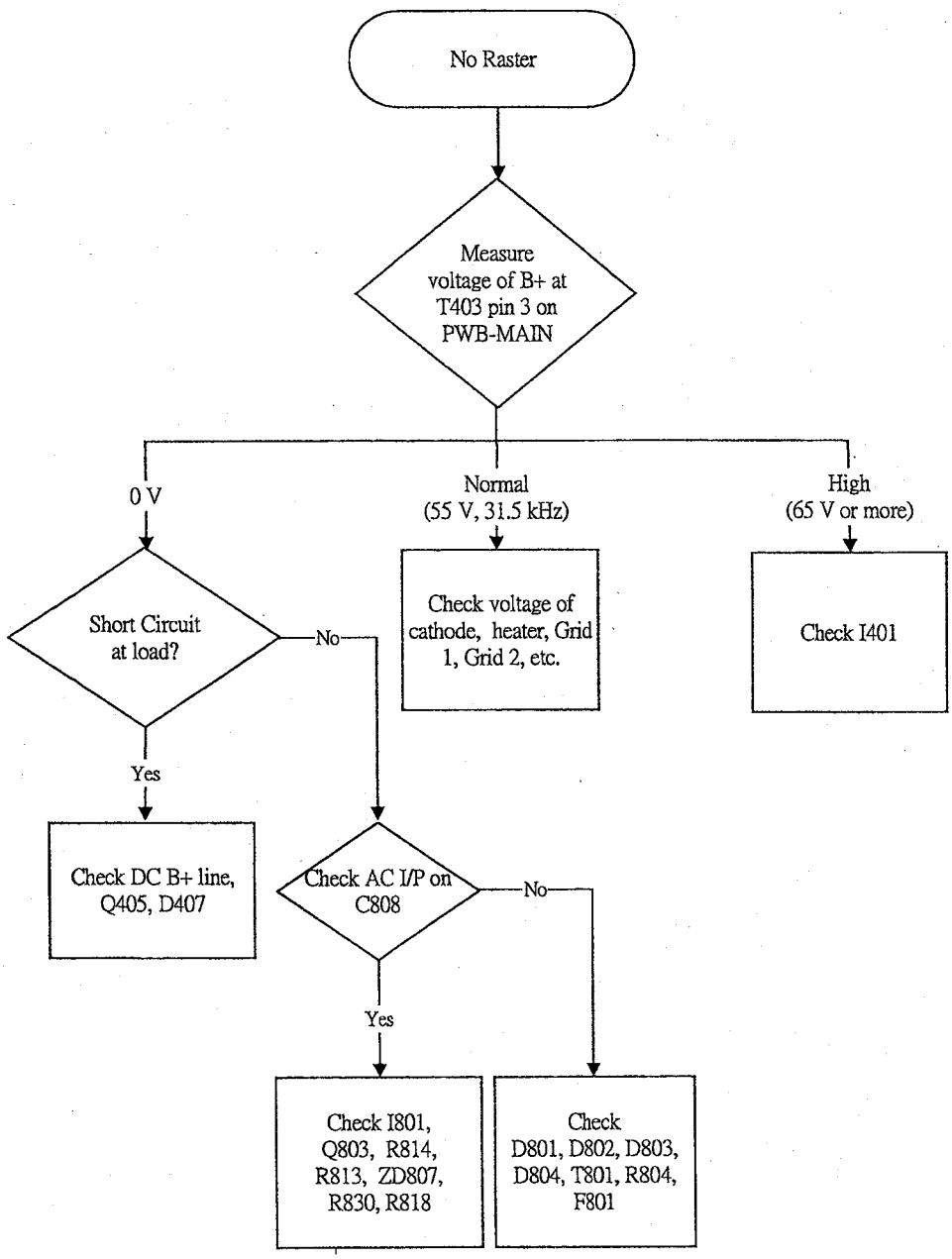
5-2-7 Manual Degaussing

1. Apply line voltage to the degaussing coil and move it in a rotary motion over the front, sides, and top of the monitor. The coil should be kept away from the rear of the monitor to avoid damaging the magnetic neck components.
2. Slowly rotate and move the coil away from the monitor to about 6 feet beyond the point where no effect on the CRT will be noticeable.

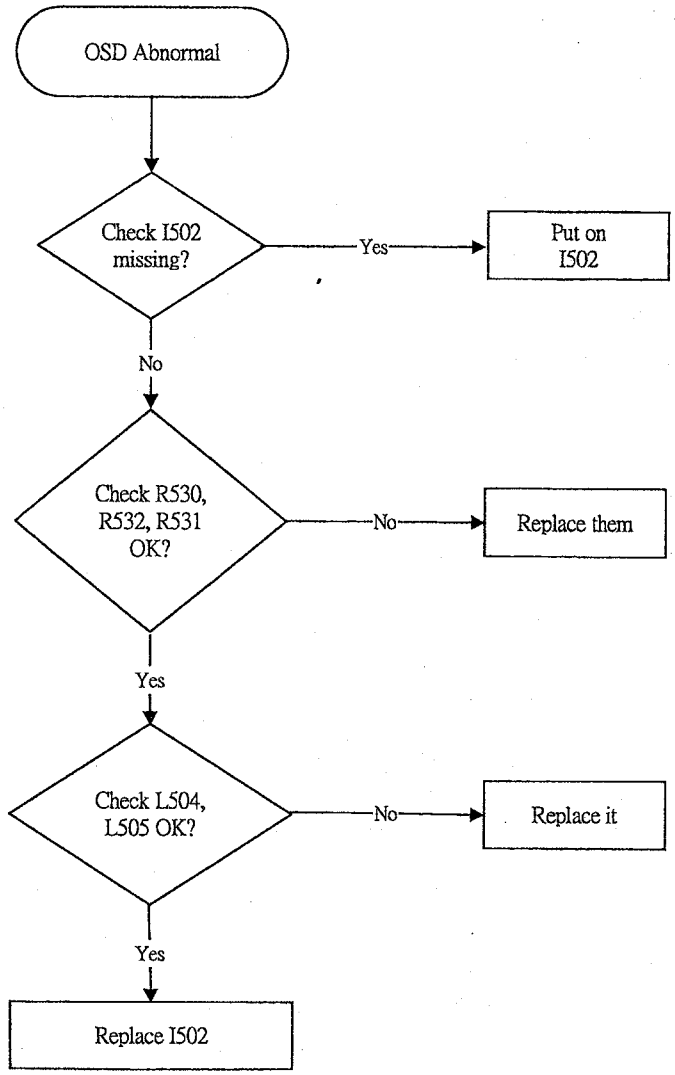
For proper degaussing, it is essential that the field be gradually reduced by moving the coil slowly away from the monitor. The degaussing coil must never be shut off or disconnected while near the monitor, as this would introduce a strong field instead of canceling the effect of the stray fields.

6 Troubleshooting

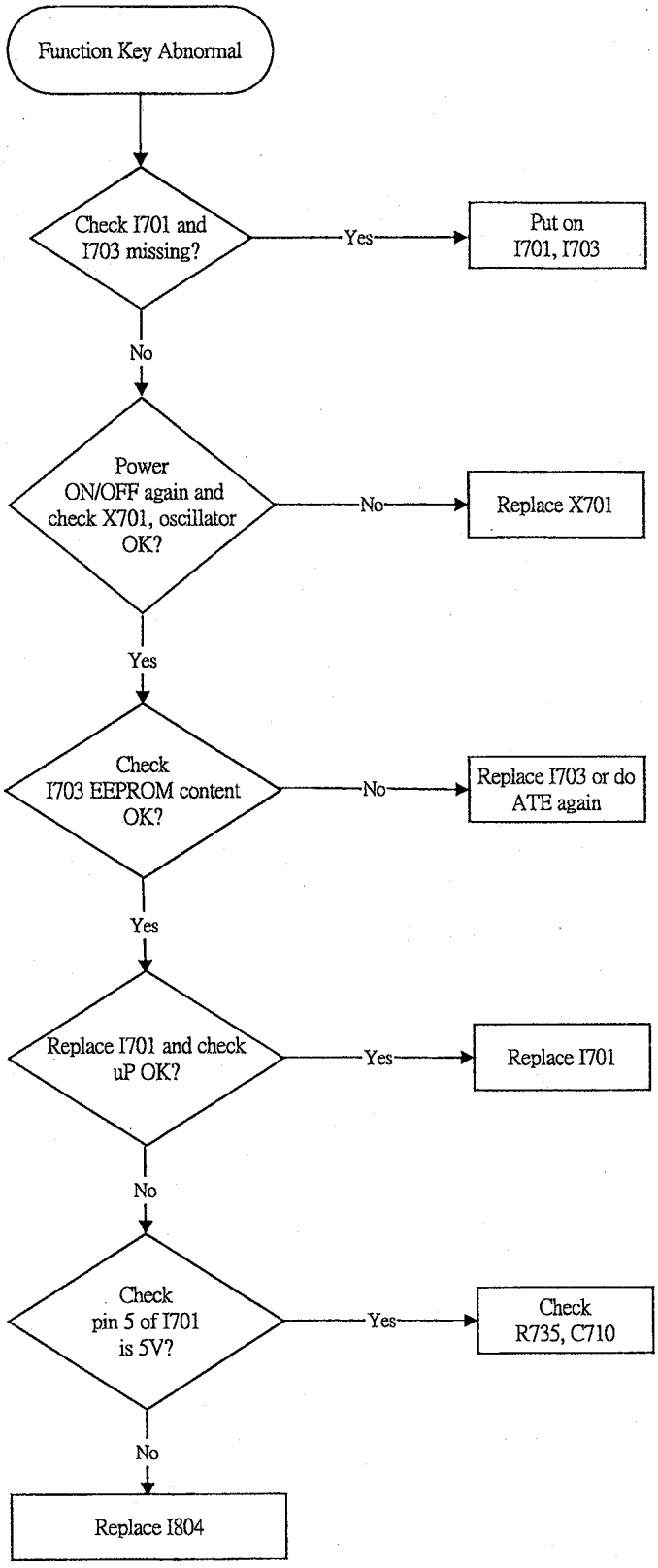
6-1 No Raster


No Raster
Measure voltage of B+ at T403 pin 3 on PWB-MAIN
0 V
Normal (55 V, 31.5 kHz)
High (65 V or more)
Short Circuit at load?
No
Yes
Check voltage of cathode, heater, Grid 1, Grid 2, etc.
Check I401
Check DC B+ line, Q405, D407
Check AC I/P on C808
No
Yes
Check I801, Q803, R814, R813, ZD807, R830, R818
Check D801, D802, D803, D804, T801, R804, F801

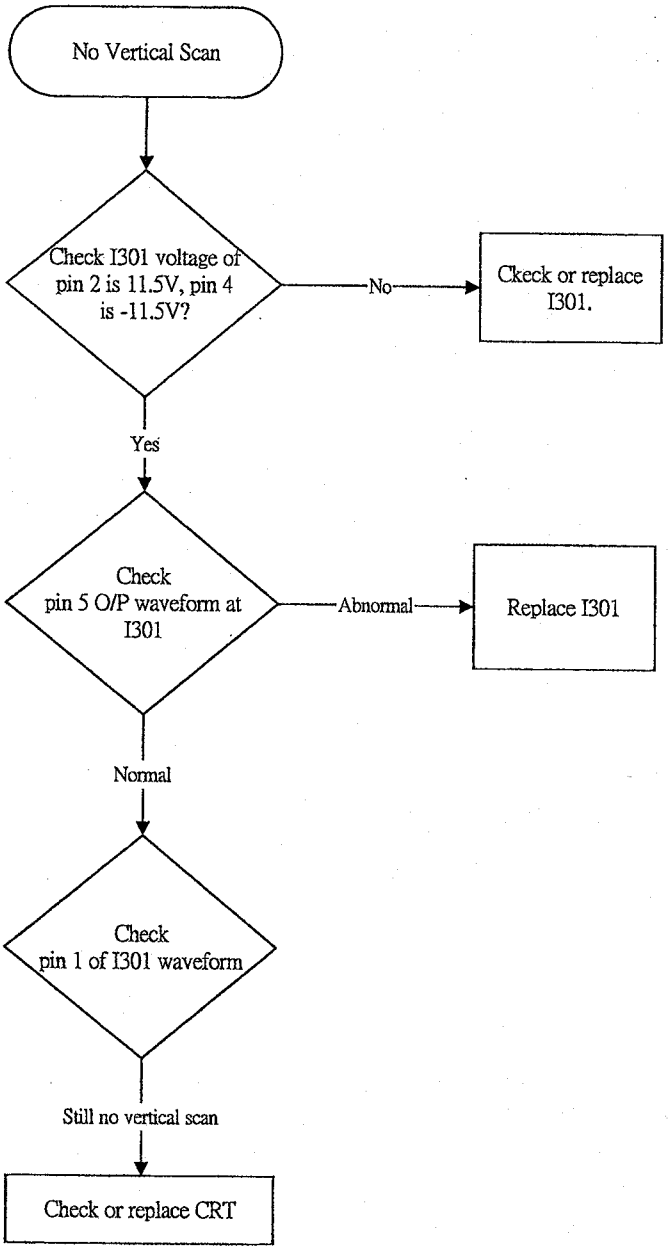
6-2 OSD Abnormal



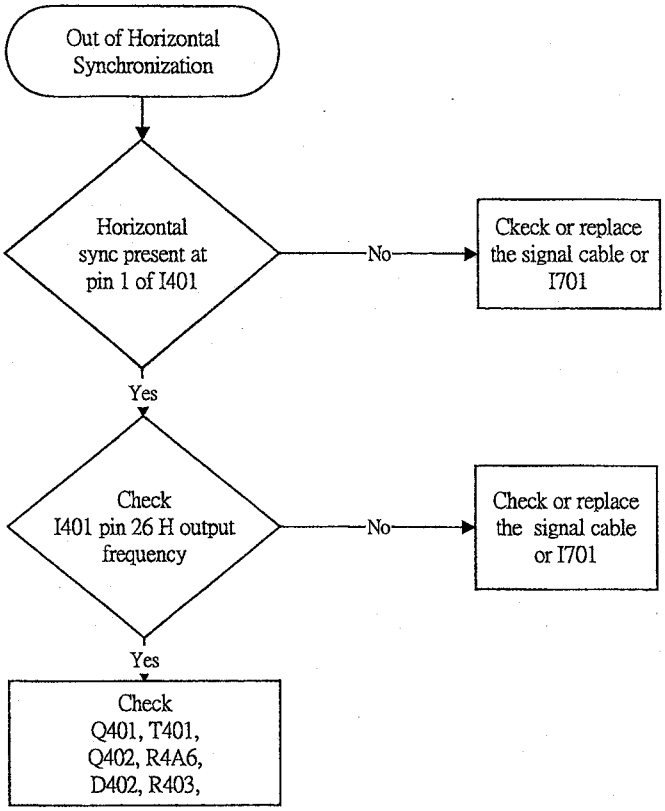
6-3 Function Key Abnormal



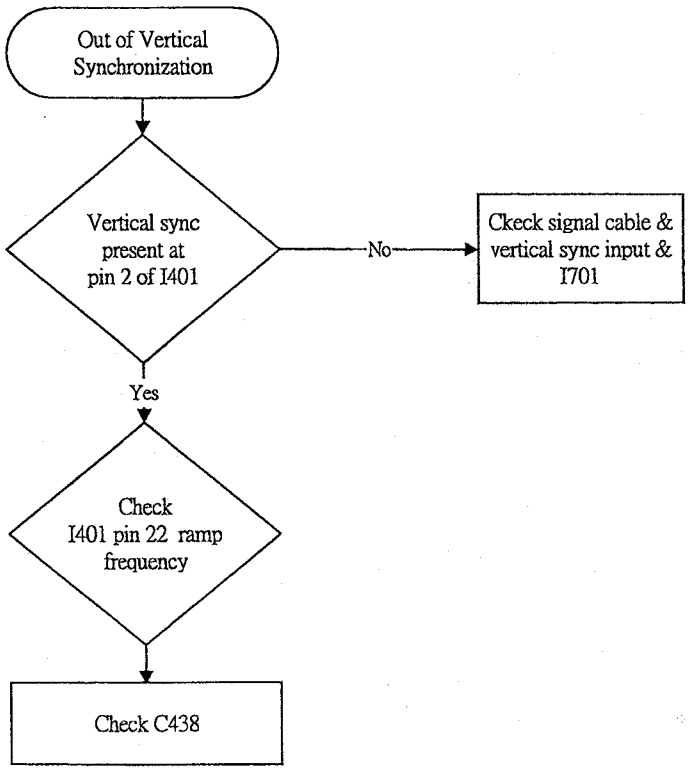
6-4 No Vertical Scan (Raster is one horizontal line)



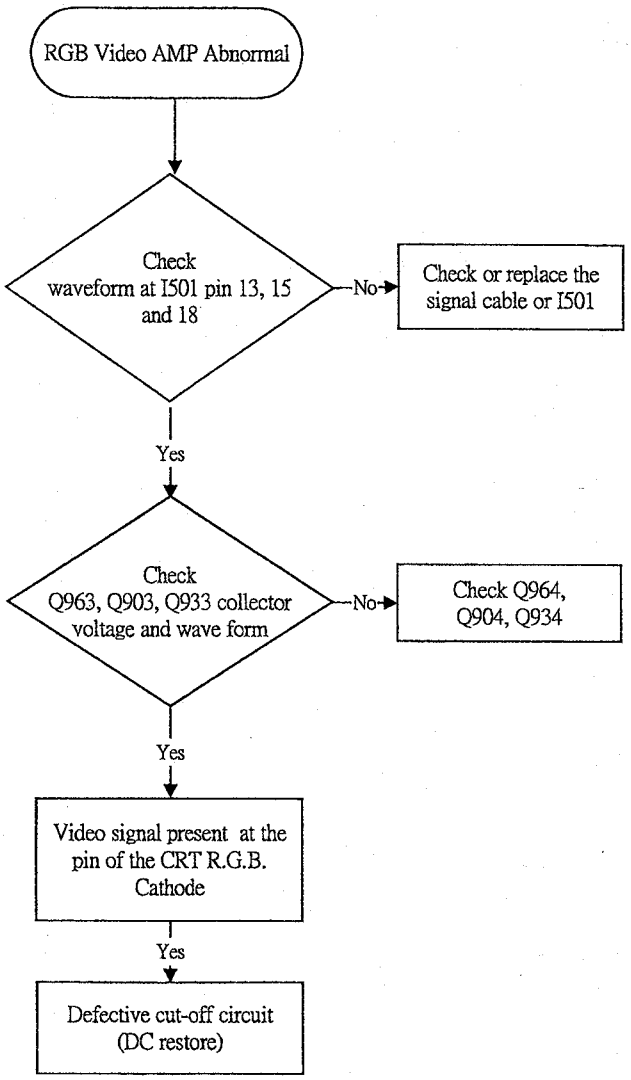
6-5 Out of Horizontal Synchronization


Out of Horizontal Synchronization
Horizontal sync present at pin 1 of I401
No
Ckeck or replace the signal cable or I701
Yes
Check I401 pin 26 H output frequency
No
Check or replace the signal cable or I701
Yes
Check Q401, T401, Q402, R4A6, D402, R403,

6-6 Out of Vertical Synchronization


Out of Vertical Synchronization
Vertical sync present at pin 2 of I401
No
Ckeck signal cable & vertical sync input & I701
Yes
Check I401 pin 22 ramp frequency
Check C438

6-7 R.G.B. Video Amplifier Abnormal


RGB Video AMP Abnormal
Check waveform at I501 pin 13, 15 and 18
No
Check or replace the signal cable or I501
Yes
Check Q963, Q903, Q933 collector voltage and wave form
No
Check Q964, Q904, Q934
Yes
Video signal present at the pin of the CRT R.G.B. Cathode
Yes
Defective cut-off circuit (DC restore)

7 Recommended Parts List

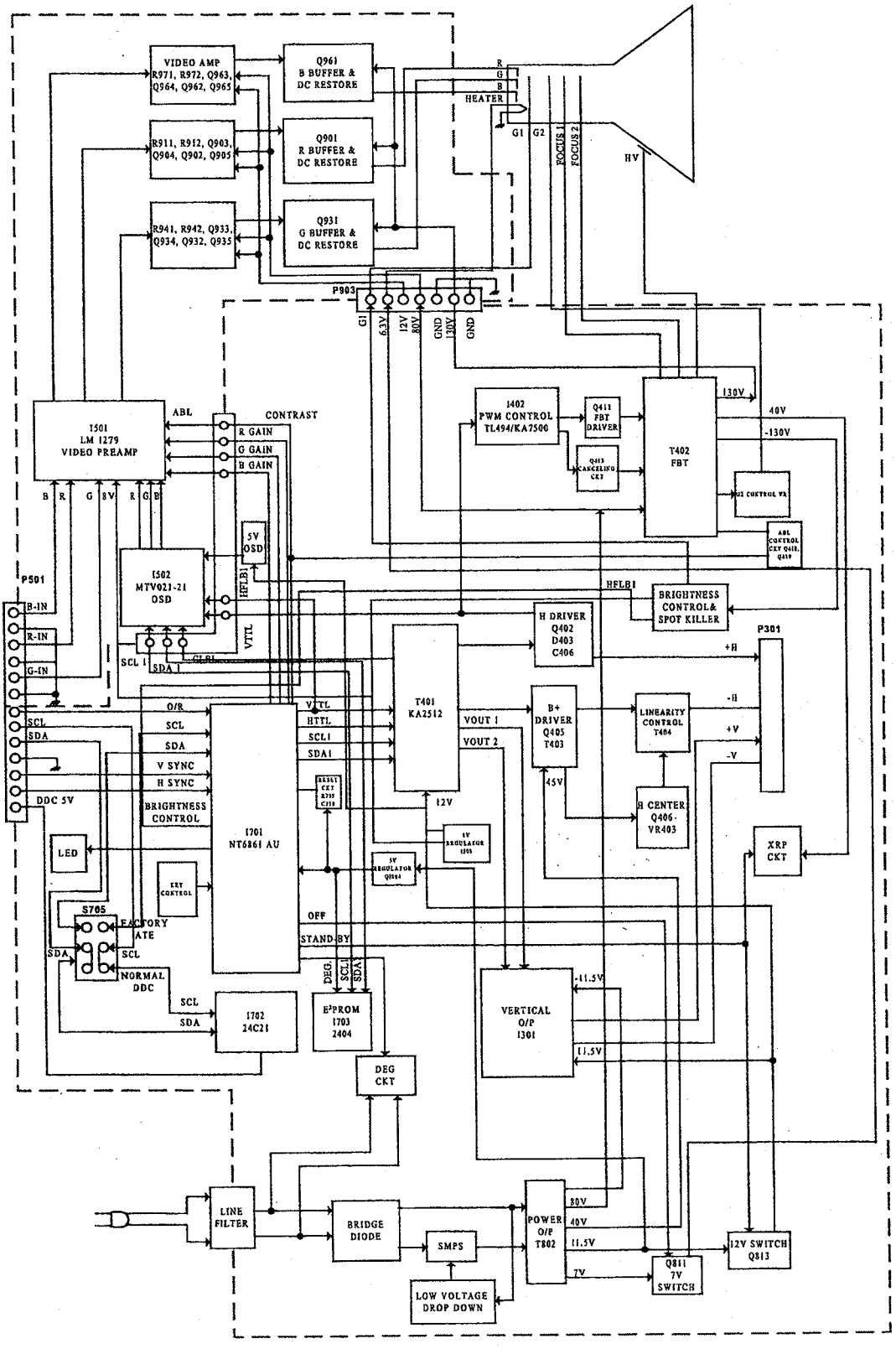
Note:1. The components identified by "⚠" mark are critical for X-ray safety. Replace these with exactly the same parts specified.

2. There is only OTP IC at the model beginning (FPR stage or before). When it put in mass production and there must be Mask coming out. If you have spart parts need, please use BOM to get the last release part number and related information.

No.	Location	Part Number	Description
1	C407	6326315446	MPP uF 0.15 400V H F P=15 HJC
2	C808	6312622126	ALU uF 220 400V F 85C 25x40
3	D801 D802 D803 D804	6412011307	DIODE 1N5406 T52 3A/600V
4	D814	6412019803	DIODE SF34S SANKEN
5	D815 D818	6412004117	DIODE UF2004M T52 2A/400V 50nS
6	D429 D407	6412020203	DIODE HER305 BXF 3A/400V
7 ⚠	F801	6851004050	FUSE TIME LAG 5ST4 4A/250V
8	I301	6442006200	IC TDA8172 9P (PHILIPS)
9	I401	6442029200	IC RB2512 32P SDIP (PHILIPS)
10	I501	6442029300	IC LM1279AN 24P SDIP (PHILIPS)
11	I701	6448014500	IC NT68P61AU 40P PDIP OTP NOVAT
12	I703	6448007930	IC 24C04 SAMSUNG
13	I801	6442023500	IC KA3843AC 8P PDIP (SAMSUNG)
14	L411	6139000200	COIL CHOKE 8mH K DRWW
15	Q402	6421004410	TR NPN 2SC5386 (TOSHIBA)
16	Q405	6426006300	FET N-CHNL IRFS634A
17	Q411	6426009400	FET N-CHNL IRFS830A
18	Q413 Q428 Q416	6426006400	FET N-CHNL IRFS630A SAMSUNG
19	Q803	6426006700	FET N-CHNL SSS7N60A SAMSUNG
20	R803	6203080017	POSISTOR 8 OHM Q 2PINPITCH=10
21	R804	6201100012	THERMISTOR 10 OHM 3A P=5 TKS

No.	Location	Part Number	Description
22	R818	6220327852	FS OHM 0.27 1W J HOR
23	T401	6135000801	XFRMR HOR DRIVE THD-1008A EI19
24	T402	6133070110	FBT TFB-7011 FEA976 SAMPO
25	T403	6111606132	COIL CHOKE 60 uH
26	T801	6138001601	LINE FILTER TLF-1016A 16mHET28
27	T802	6131052021	XFRMER PWR TPW-1070 EI40
28	X701	6449000719	CRYSTAL 8MHz TOP8.000 30pF TOP
29	D817	6412000520	DIODE RL4A 3A/600V 50nS SANKEN
30	D813	6412020103	SF36S
31	Q433	6426005201	IRFS 640A
32	T404	6119007400	LINEARITY X'FORMER
33	T405	6136001300	FOCUS X'FORMER

8 Block Diagram



Service Manual Versions and Revision

No.	Version	Release Date	Revision
1.	1.0	June 19, 2000	Original release
2.	1.1	Aug. 8, 2000	P. 12, 16, 18, 24, 28, 29
3	1.2	Aug. 16, 2000	P. 13 4-4-3 P. 17 5-2-2

S 103035

LITE-ON TECHNOLOGY CORP . PAGE: 1
BOM 1 PERT USAGE LISTING 10/16/00 11.01.12
P/N: 47065 160 23 Model Name: S1770NST(99)-E2(C) MAXDATA QTY: 1 U/M: SET

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No UM Usage Qty B/N S
1		0		N	5192201158	CABT-2 S1770NST(99)-E2(C) MAXD	EA 1.00000 B
0,2	A6B01			N	7742216860-0A	REAR COVER PHX17" #5000 PC+ABS	8140000902 EA 1.00000 N S
0,2	A8C01			N	7737702711-0A	S/B ASSY #5000 PHX17" PC+ABS	8140000903 EA 1.00000 N S
0,2	V901Q			N	1120000606	TAPE ACETATE CLOTH	M .00600 N
0,2	0Y012			N	1250000403	WHITE POINT	EA .00100 N
0,2	01P32			Y	7749000200-0D	plastic bag	8440000038 EA 1.00000 N
0,2	02B02			Y	7735421741-0A	X-RAY LABEL 17"	8440003188 EA 1.00000 N
0,2	02B07			Y	7735403950	HI-POT OK LABEL ALL MODEL	8340000098 EA 1.00000 N
0,2	02P11			Y	7740100200	WIRING TIES 250X2.5MM	8440000046 EA 1.00000 N
0,2	5C02M			Y	7742001090	SPONGE(CRT BD) CM-1465MCLR	8440001793 EA 1.00000 N S
0,2	6B01M			Y	7140140161	DOUBLE THREAD SCREW M4X16	8440000090 EA 4.00000 N
0,2	9N035			N	1250000407	JP-888	KG .00200 N
0,2	9N050			N	1250000600	CLEANER NAPHTHA	L .00700 N
0,2	9N070			N	1250200100	ADHESIVE SILICONE RUBBER	KG .00100 N
1		0		N	5192301154	BURN-IN S1770NST(99)-E2(C) MAX	EA 1.00000 B
0,2	A0001			N	9051200150-0B	ALIG. SPEC. S1770NSL/NST	EA 1.00000 N
0,2	A0002			N	9061200153-0B	INSP. SPEC. S1770NSL/NST	EA 1.00000 N
0,2	A0003			N	9042200186-0B	ENG. SPEC. S1770NSL/NST	EA 1.00000 N
0,2	A0005			N	9081000248-0A	EDID DATA S1770NST MAXDATA	EA 1.00000 N
0,2		0		N	5192100662	CABT-1 S1770NST(99)-E2(C) MAXD	EA 1.00000 B
..3	A6F01			N	7737505502-0A	F/C ASS'Y SPH17"PLUS MAXDATA	8140001039 EA 1.00000 N S
..3	P202A			Y	6711020720-30	HRNS 2P 1550 1007#24 BLK 1WIRE	EA 1.00000 N
..3	Q403R			Y	7740100103	WIRING CABLE TIES	8440000030 EA 4.00000 N
..3	Q403R			Y	7740100101	CABLE TIES	8440000030 EA 1.00000 N
..3	Q404Q			Y	7740100101	CABLE TIES	8440000030 EA 14.00000 N
..3	Q404R			Y	7740100500	WIRE CLIP P1558 IBM	8440002085 EA 1.00000 N
..3	TCO1A			Y	6711010210-70	HRNS 1P 300/130/130/300/30 BLK	EA 1.00000 N
..3	T402P			Y	7131440081	SCREW+WASHER M4*8	8440000079 EA 1.00000 N
..3	V901B			Y	6117170090	COIL DEGAUSSING TDG-1709	EA 1.00000 N
..3	V901C			Y	6710000840-30	HRNS CRT GND WIRE 8WIRE&1CORE	EA 1.00000 N
..3	V901I			Y	6876001501	Aluminium Tap W08xL0420x100M3M	EA .00840 N
..3	V901K			Y	6101150020	COIL ROT 0.2x150T 380 PVC130+C	EA 1.00000 N S
..3	V901L			Y	6714010600-20	HRNS 120 1015#18BLK+1C PIN/187	EA 1.00000 N
..3	V901M			N	7142750201	SCREW+STAR WASHER L=20 D'=18	8440000188 EA 4.00000 N
..3	0P501			N	6715007113	VIDEO CBL CG6919COLOR#5000ONLY	EA 1.00000 N S
..3	0V901			Y	6811172737	CRT M41AGE93X46 CL CPT JVC DY	EA 1.00000 N S
0,2		0		N	5195602168	CHASSIS S1770NST(99)-E2(C) MAX	EA 1.00000 B
..3	C808C			Y	6522035211	WIRE 1617 #22 BRN 35mm 4/4	EA 1.00000 N
..3	T402E			Y	6881003301	CORE MAG W5 CHG3300+HSTUBEONL	EA 1.00000 N
..3	T402G			Y	6881000691	CORE MAG W5 CHG690+H.STUBEONL\	EA 1.00000 N
..3	T402Q			Y	7140140121	SCREW M4*12	8440000090 EA 1.00000 N
..3	T402W			N	7742606220-0A	spacer support	8440003140 EA 2.00000 N
..3	U1535			N	6831153500-01	PCB TCO1 BD PWB-1535	EA 1.00000 N S
..3		0		N	5195300035	TCO BD S1770NST(99)-U2(C) LITE	EA 1.00000 B
...4	U1534			N	6831153400-01	PCB TCO BD PWB-1534	EA 1.00000 N S
...4	VR201			N	6246103000	VR,KOHM, 10,0.5 W,TA,B,8D	EA 1.00000 N
...4	0C201			Y	6335110215	CD pF 1000 50V K Y5P T	EA 1.00000 N
...4	0C202			Y	6336410385	CD uF 0.01 500V Z Z5U T	EA 1.00000 N
...4	0C203			Y	6331968055	CD pF 68 50V J SL T	EA 1.00000 N
...4	0C204			Y	6336410385	CD uF 0.01 500V Z Z5U T	EA 1.00000 N
...4	0P201			Y	6611030020	PLUG 3P JWT-A2501WV2-3P/JST-XH	EA 1.00000 N
...4	0P202			Y	6611020021	PLUG 2P 2.5 JWT-A2501WV2-2P	EA 1.00000 N

1 RI 0 LITE-ON TECHNOLOGY CORP . PAGE: 2
0 BOM 1 PERT USAGE LISTING 10/16/00 11.01.12
0 P/ 47065 160 23 Model Name: S1770NST(99)-E2(C) MAXDATA QTY: 1 U/M: SET

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No UM Usage Qty B/N S
...4	0Q201	S0		Y	6422002925	TR NPN HBF422T/B TO-92 TAPING	EA 1.00000 N
...4	0Q201	S1		Y	6422002905	TR NPN BF422(TPE2) (TOSHIBA)	EA 1.00000 B
...4	0R201			Y	6221110352	MOF KOHM 10 1W J HOR	EA 1.00000 N
...4	0R202			Y	6212382357	CF ,KOHM, 82 ,1/2W,J,AT52	EA 1.00000 N
...4	0R203			Y	6212239254	CF KOHM 3.9 1/4W J T26	EA 1.00000 N
...4	0R204			Y	6212215254	CF KOHM 1.5 1/4W J T26	EA 1.00000 N
...4	0R205			Y	6224115024	MF KOHM 15 1/8W F T26	EA 1.00000 N
...4	0R206			Y	6224136024	MF KOHM 36 1/8W F T26	EA 1.00000 N
..3		0		N	5196900096	CTRL ASSY A1770NSL#N2 LITEON	EA 1.00000 B

...4	P801A			Y	6714010035	HRNS 1P 1015#18 CG032CORE&TURN	EA	1.00000	N	
...4	P801C			N	1120000110	TUBING, HEAT-SHRINKING 5D,20MM	8340000405	EA	1.00000	N
...4	0P801	S1		Y	6621030071	AC INLET 3P STF309A1-03	EA	1.00000	N	S
...4	0P801	S0		Y	6621030062	AC INLET 3P AS0714-CP7	EA	1.00000	N	S
...4	9N001			N	1250000143	SOLDER WIRE SUPER	EA	.00450	N	
..3		0		N	5197700986	CRT BD S1770NST(99)-U2(C) LITE	EA	1.00000	B	
...4	BD910			Y	6881006205	BEAD CORE W4B RH3.5x6x1(W)x2+T	EA	1.00000	N	
...4	BD911			Y	6881006205	BEAD CORE W4B RH3.5x6x1(W)x2+T	EA	1.00000	N	
...4	BD912			Y	6881006205	BEAD CORE W4B RH3.5x6x1(W)x2+T	EA	1.00000	N	
...4	U1526			N	6831152600-03	PCB VIDEO BD PWB-1526	EA	1.00000	N	S
...4	VR901			Y	6246104100	VR,100 KOHM B 0.5W SA	EA	1.00000	N	
...4	VR931			Y	6246104100	VR,100 KOHM B 0.5W SA	EA	1.00000	N	
...4	VR961			Y	6246104100	VR,100 KOHM B 0.5W SA	EA	1.00000	N	
...4	V901A			Y	6623100180	CRT SOCKET 10P ISDW36S-L INCHG	EA	1.00000	N	S
...4	0C501			Y	6331110055	CD pF 10 50V J NPO T	EA	1.00000	N	
...4	0C502			Y	6311510045	ALU uF 10 50V T 105C 5x11	EA	1.00000	N	
...4	0C503			Y	6331110055	CD pF 10 50V J NPO T	EA	1.00000	N	
...4	0C504			Y	6311510045	ALU uF 10 50V T 105C 5x11	EA	1.00000	N	
...4	0C505			Y	6331110055	CD pF 10 50V J NPO T	EA	1.00000	N	
...4	0C506			Y	6311510045	ALU uF 10 50V T 105C 5x11	EA	1.00000	N	
...4	0C507			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C508			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C509			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C510			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C511			Y	6311122145	ALU uF 220 10V T 105C 6.3x11	EA	1.00000	N	
...4	0C512			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C513			Y	6335110315	CD uF 0.01 50V K Y5P T	EA	1.00000	N	
...4	0C514			Y	6335110315	CD uF 0.01 50V K Y5P T	EA	1.00000	N	
...4	0C515			Y	6335110115	CD pF 100 50V K Y5P T	EA	1.00000	N	
...4	0C516			Y	6331968055	CD pF 68 50V J SL T	EA	1.00000	N	
...4	0C517			Y	6331968055	CD pF 68 50V J SL T	EA	1.00000	N	
...4	0C518			Y	6335110115	CD pF 100 50V K Y5P T	EA	1.00000	N	
...4	0C519			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C520			Y	6311122145	ALU uF 220 10V T 105C 6.3x11	EA	1.00000	N	
...4	0C521			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C522			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C523			Y	6311510045	ALU uF 10 50V T 105C 5x11	EA	1.00000	N	
...4	0C524			Y	6311510045	ALU uF 10 50V T 105C 5x11	EA	1.00000	N	
...4	0C525			Y	6311347045	ALU uF 47 25V T 105C 5x11	EA	1.00000	N	
...4	0C528			Y	6338110485	CD uF 0.1 50V Z Y5V T	EA	1.00000	N	
...4	0C534			Y	6311347045	ALU uF 47 25V T 105C 5x11	EA	1.00000	N	
...4	0C902			Y	6338510115	CD pF 100 1000V K X7R T	EA	1.00000	N	
...4	0C903			Y	6338110315	CD uF 0.01 50V K X7R T	EA	1.00000	N	
1 RI		0			LITE-ON	TECHNOLOGY CORP	.	PAGE: 3		
0					BOM	1 PERT USAGE LISTING	10/16/00	11.01.12		
0 P/	47065	160	23		Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1	U/M: SET		

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0C905			Y	6312201045	ALU uF 1 160V T 105C 5x11		EA	1.00000		N	
...4	0C907			Y	6312247875	ALU uF .47 160V T NK 105C 5x11		EA	1.00000		N	
...4	0C908			Y	6331133055	CD pF 33 50V J NPO T		EA	1.00000		N	
...4	0C910			Y	6335522115	CD pF 220 1000V K Y5P T		EA	1.00000		N	
...4	0C911			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C912			Y	6312122045	ALU uF 22 100V T 105C 8x12		EA	1.00000		N	
...4	0C913			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C914			Y	6311322045	ALU uF 22 25V T 105C 5x11		EA	1.00000		N	
...4	0C915			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C916			Y	6312222045	ALU uF 22 160V T 105C 10x16		EA	1.00000		N	
...4	0C917			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C918			Y	6335522115	CD pF 220 1000V K Y5P T		EA	1.00000		N	
...4	0C919			Y	6336610205	CD pF 1000 2000V M Z5U T		EA	1.00000		N	
...4	0C920			Y	6331168055	CD pF 68 50V J NPO T		EA	1.00000		N	
...4	0C921			Y	6335433115	CD pF 330 500V K Y5P F P=5		EA	1.00000		N	
...4	0C922			Y	6335410215	CD pF 1000 500V K Y5P T		EA	1.00000		N	
...4	0C923			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000		N	
...4	0C932			Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000		N	
...4	0C933			Y	6338110315	CD uF 0.01 50V K X7R T		EA	1.00000		N	
...4	0C935			Y	6312201045	ALU uF 1 160V T 105C 5x11		EA	1.00000		N	
...4	0C937			Y	6312247875	ALU uF .47 160V T NK 105C 5x11		EA	1.00000		N	
...4	0C938			Y	6331133055	CD pF 33 50V J NPO T		EA	1.00000		N	
...4	0C962			Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000		N	
...4	0C963			Y	6338110315	CD uF 0.01 50V K X7R T		EA	1.00000		N	

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...4	0C965		Y	6312201045	ALU uF 1 160V T 105C 5x11	EA	1.00000	N
...4	0C967		Y	6312247875	ALU uF .47 160V T NK 105C 5x11	EA	1.00000	N
...4	0C968		Y	6331133055	CD pF 33 50V J NPO T	EA	1.00000	N
...4	0C981		Y	6335110115	CD pF 100 50V K Y5P T	EA	1.00000	N
...4	0C986		Y	6336510205	CD pF 1000 1000V M Z5U T	EA	1.00000	N
...4	0C987		Y	6336547102	CD pF 470 1000V M Z5U F P=5	EA	1.00000	N
...4	0D501	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D501	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D502	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D502	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D503	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D503	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D504	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D504	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D505	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D505	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D506	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D506	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D901	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D901	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D902	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D902	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D903		Y	6412003304	DIODE 1SS83TD 1A/300V T26	EA	1.00000	N
...4	0D904		Y	6412003304	DIODE 1SS83TD 1A/300V T26	EA	1.00000	N
...4	0D905		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE	EA	1.00000	N
...4	0D931	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D931	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D932	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0D932	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D933			Y	6412003304	DIODE 1SS83TD 1A/300V T26		EA	1.00000	N	
...4	0D934			Y	6412003304	DIODE 1SS83TD 1A/300V T26		EA	1.00000	N	
...4	0D935			Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D961	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D961	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D962	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D962	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D963			Y	6412003304	DIODE 1SS83TD 1A/300V T26		EA	1.00000	N	
...4	0D964			Y	6412003304	DIODE 1SS83TD 1A/300V T26		EA	1.00000	N	
...4	0D965			Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0I501			Y	6442029300	IC LM1279AN 20P PDIP NS		EA	1.00000	N	
...4	0I502			Y	6444004130	IC MTV021N-21L 16P PDIP MYSON		EA	1.00000	N	
...4	0I503			Y	6442018105	IC KA78L08AZTA 3P TO-92 TAPING		EA	1.00000	N	
...4	0J901			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J902			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J903			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J904			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J905			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J906			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J907			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J908			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J909			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J911			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J912			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J913			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J914			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J915			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J916			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J917			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J918			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J930			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J935			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J936			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J937			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J938			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J939			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J940			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J941			Y	6700060000	JUMPER WIRE		KG	.00009	N	

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...4	0J942			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0J943			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0J944			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0J945			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0J946			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0L504			Y	6115101104	COIL PEAKING 100 uH K T26	EA 1.00000 N	
...4	0L505			Y	6881006205	BEAD CORE W4B RH3.5x6x1(W)x2+T	EA 1.00000 N	
...4	0L901			Y	6115109107	COIL PEAKING 1.0uH K T52	EA 1.00000 N	
...4	0L902			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0L910			Y	6115479104	COIL PEAKING 4.7 uH K T26	EA 1.00000 B	
...4	0L912			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA 1.00000 N	
...4	0L913			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA 1.00000 N	
...4	0L914			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA 1.00000 N	
1 RI		0			LITE-ON	TECHNOLOGY CORP	. PAGE: 5	
0					BOM	1 PERT USAGE LISTING	10/16/00 11.01.12	
0 P/	47065	160	23		Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1 U/M: SET	

Levi	Cktid	G1	G2	APR	Item No.	Description	Drawing No UM Usage Qty B/N S	
...4	0L915			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA 1.00000 N	
...4	0L931			Y	6115109107	COIL PEAKING 1.0uH K T52	EA 1.00000 N	
...4	0L932			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0L961			Y	6115109107	COIL PEAKING 1.0uH K T52	EA 1.00000 N	
...4	0L962			Y	6700060000	JUMPER WIRE	KG .00009 N	
...4	0P501			Y	6611060020	PLUG 6P JWT-A2501WV2-6P/JST-XH	EA 1.00000 N	
...4	0P502			Y	6611120060	PLUG 12P 2.5 JWT-A2501WV2-12P	EA 1.00000 N	
...4	0P503			Y	6611070062	PLUG 7P 2.5 JWT-A2501WV2-7P	EA 1.00000 N	
...4	0P902			Y	6614030081	WAFER 3P 3.96 JWT-A3963WV2-3PD	EA 1.00000 N	
...4	0Q901	S0		Y	6424002215	TR PNP HBF423T/B TO-92 TAPING	EA 1.00000 N	
...4	0Q901	S1		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)	EA 1.00000 B	
...4	0Q902			Y	6421005005	TR NPN BFQ221,126 PHILIPS	EA 1.00000 N	0020
...4	0Q903			Y	6421005100	TR NPN BFQ225,127 PHILIPS	EA 1.00000 N	0021
...4	0Q904			Y	6422003605	TR NPN PH2369*B TAPING PHILIPS	EA 1.00000 N	
...4	0Q905			Y	6423002205	TR PNP BFQ241,126 PHILIPS	EA 1.00000 N	
...4	0Q931	S0		Y	6424002215	TR PNP HBF423T/B TO-92 TAPING	EA 1.00000 N	0022
...4	0Q931	S1		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)	EA 1.00000 B	
...4	0Q932			Y	6421005005	TR NPN BFQ221,126 PHILIPS	EA 1.00000 N	
...4	0Q933			Y	6421005100	TR NPN BFQ225,127 PHILIPS	EA 1.00000 N	
...4	0Q934			Y	6422003605	TR NPN PH2369*B TAPING PHILIPS	EA 1.00000 N	
...4	0Q935			Y	6423002205	TR PNP BFQ241,126 PHILIPS	EA 1.00000 N	
...4	0Q961	S0		Y	6424002215	TR PNP HBF423T/B TO-92 TAPING	EA 1.00000 N	
...4	0Q961	S1		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)	EA 1.00000 B	
...4	0Q962			Y	6421005005	TR NPN BFQ221,126 PHILIPS	EA 1.00000 N	
...4	0Q963			Y	6421005100	TR NPN BFQ225,127 PHILIPS	EA 1.00000 N	
...4	0Q964			Y	6422003605	TR NPN PH2369*B TAPING PHILIPS	EA 1.00000 N	
...4	0Q965			Y	6423002205	TR PNP BFQ241,126 PHILIPS	EA 1.00000 N	
...4	0R501			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R502			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R503			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R504			Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA 1.00000 N	
...4	0R505			Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA 1.00000 N	
...4	0R506			Y	6212133054	CF OHM 33 1/4W J T26 MINI	EA 1.00000 N	
...4	0R507			Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA 1.00000 N	
...4	0R509			Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA 1.00000 N	
...4	0R513			Y	6212147154	CF OHM 470 1/4W J T26 MINI	EA 1.00000 N	
...4	0R514			Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI	EA 1.00000 N	
...4	0R515			Y	6212182254	CF KOHM 8.2 1/4W J T26 MINI	EA 1.00000 N	
...4	0R516			Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI	EA 1.00000 N	
...4	0R517			Y	6212147454	CF KOHM 470 1/4W J T26 MINI	EA 1.00000 N	
...4	0R518			Y	6212162054	CF OHM 62 1/4W J T26 MINI	EA 1.00000 N	
...4	0R519			Y	6212162054	CF OHM 62 1/4W J T26 MINI	EA 1.00000 N	
...4	0R521			Y	6212110154	CF OHM 100 1/4W J T26 MINI	EA 1.00000 N	
...4	0R522			Y	6212139154	CF OHM 390 1/4W J T26 MINI	EA 1.00000 N	
...4	0R523			Y	6212139154	CF OHM 390 1/4W J T26 MINI	EA 1.00000 N	
...4	0R524			Y	6212139154	CF OHM 390 1/4W J T26 MINI	EA 1.00000 N	
...4	0R525			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R526			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R527			Y	6224175094	MF OHM 75.0 1/8W F T26	EA 1.00000 N	
...4	0R530			Y	6212120154	CF OHM 200 1/4W J T26 MINI	EA 1.00000 N	
...4	0R531			Y	6212120154	CF OHM 200 1/4W J T26 MINI	EA 1.00000 N	
...4	0R532			Y	6212120154	CF OHM 200 1/4W J T26 MINI	EA 1.00000 N	
1 RI		0			LITE-ON	TECHNOLOGY CORP	. PAGE: 6	
0					BOM	1 PERT USAGE LISTING	10/16/00 11.01.12	

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R534			Y	6212116154	CF OHM 160 1/4W J T26 MINI		EA	1.00000		N	
...4	0R535			Y	6212116154	CF OHM 160 1/4W J T26 MINI		EA	1.00000		N	
...4	0R536			Y	6212116154	CF OHM 160 1/4W J T26 MINI		EA	1.00000		N	
...4	0R901			Y	6212122054	CF OHM 22 1/4W J T26 MINI		EA	1.00000		N	
...4	0R902			Y	6212156154	CF OHM 560 1/4W J T26 MINI		EA	1.00000		N	
...4	0R903			Y	6212111154	CF OHM 110 1/4W J T26 MINI		EA	1.00000		N	
...4	0R904			Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R905			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R906			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R907			Y	6212347057	CF , OHM, 47 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R908			Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R909			Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R910			Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R911			Y	6221515259	MOF KOHM 1.5 5W J RSN-Z TAI		EA	1.00000		N	
...4	0R913			Y	6212315157	CF , OHM,150 .1/2W,J,AT52		EA	1.00000		N	
...4	0R914			Y	6221133452	MOF KOHM 330 1W J HOR		EA	1.00000		N	
...4	0R916			Y	6224122194	MF OHM 22.1 1/8W F T26		EA	1.00000		N	
...4	0R917			Y	6224133094	MF OHM 33 1/8W F T26		EA	1.00000		N	
...4	0R931			Y	6212122054	CF OHM 22 1/4W J T26 MINI		EA	1.00000		N	
...4	0R932			Y	6212156154	CF OHM 560 1/4W J T26 MINI		EA	1.00000		N	
...4	0R933			Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R934			Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R935			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R936			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R937			Y	6212347057	CF , OHM, 47 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R938			Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R939			Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R940			Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R941			Y	6221515259	MOF KOHM 1.5 5W J RSN-Z TAI		EA	1.00000		N	
...4	0R946			Y	6224122194	MF OHM 22.1 1/8W F T26		EA	1.00000		N	
...4	0R947			Y	6224133094	MF OHM 33 1/8W F T26		EA	1.00000		N	
...4	0R961			Y	6212122054	CF OHM 22 1/4W J T26 MINI		EA	1.00000		N	
...4	0R962			Y	6212156154	CF OHM 560 1/4W J T26 MINI		EA	1.00000		N	
...4	0R963			Y	6212111154	CF OHM 110 1/4W J T26 MINI		EA	1.00000		N	
...4	0R964			Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R965			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R966			Y	6212147354	CF KOHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R967			Y	6212347057	CF , OHM, 47 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R968			Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R969			Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R970			Y	6212182054	CF OHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R971			Y	6221515259	MOF KOHM 1.5 5W J RSN-Z TAI		EA	1.00000		N	
...4	0R976			Y	6224122194	MF OHM 22.1 1/8W F T26		EA	1.00000		N	
...4	0R977			Y	6224133094	MF OHM 33 1/8W F T26		EA	1.00000		N	
...4	05C26			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
..3		0		N	5197802388	MAIN BD S1770NST(99)-E2(C) MAX		EA	1.00000		B	
...4	C406A			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000		N	
...4	C406B			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000		N	
...4	C808A			N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000		N	
...4	C808B			N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000		N	
...4	D403A			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000		N	
...4	D403B			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000		N	

0 P/ 47065 160 23 Model Name: S1770NST(99)-E2(C) MAXDATA QTY: 1 U/M: SET

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	D403C			N	1250000520	HEAT SINK COMPOUND		KG	.00001		N	
...4	D403N			Y	7110230081	MACHINE SCREW M3*8	8440000018	EA	1.00000		N	
...4	F801A			Y	6622050010	FUSE CLIP FC-04 FOR D=5MM FUSE		EA	2.00000		N	
...4	I301C			N	1250000520	HEAT SINK COMPOUND		KG	.00001		N	
...4	I301M			N	7746402172-0B	HEAT SINK	8440003048	EA	1.00000		N	
...4	I301N			N	7111230101	MACHINE SCREW M3x10	8440001648	EA	1.00000		N	
...4	I702A			Y	6626080010	IC SOCKET 8P 8300-08AT00		EA	1.00000		N	
...4	I703A			Y	6626080010	IC SOCKET 8P 8300-08AT00		EA	1.00000		N	
...4	I703B			N	7746202910-0A	E2PROM SHIELDING	8440003605	EA	1.00000		N	
...4	LD701			Y	6418004400	LED LTL-36EDJH62P 1(Y) 3(G)		EA	1.00000		N	
...4	L411A			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000		N	

...4	L411B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	P201A		Y	6711031030-00	HRNS 3P 300 1007#24TWIST 30/20	EA	1.00000	N		
...4	P501A		Y	6611070062	PLUG 7P 2.5 JWT-A2501WV2-7P	EA	1.00000	N		
...4	P502A		Y	6711120110-00	HRNS 12P 380 1007#24TWST 30/20	EA	1.00000	N		
...4	P801A		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	P801B		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	P801I		Y	7740200370	RIVET P1438 IBM	8440000760	EA	1.00000	N	
...4	P801L		Y	7740200370	RIVET P1438 IBM	8440000760	EA	1.00000	N	
...4	P903A		Y	6711070130-10	HRNS 7P 250 1007#24TWIST+1CORE	EA	1.00000	N		
...4	Q402A		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	Q402B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	Q402C		N	1250000520	HEAT SINK COMPOUND	KG	.00001	N		
...4	Q402M		N	7746402190-0E	FBT HEAT SINK (B1770)	8240000895	EA	1.00000	N	
...4	Q402N		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q402P		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q405C		N	1250000520	HEAT SINK COMPOUND	KG	.00001	N		
...4	Q405N		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q405P		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q411C		N	1250000520	HEAT SINK COMPOUND	KG	.00001	N		
...4	Q411N		Y	7110230101	MACHINE SCREW M3*10	8440000018	EA	1.00000	N	
...4	Q411P		Y	7740200400	FLANGE HEX NUT	8440002047	EA	1.00000	N	
...4	Q803C		N	1250000520	HEAT SINK COMPOUND	KG	.00001	N		
...4	Q803M		N	7746401880-0B	HEAT SINK	8440002563	EA	1.00000	N	
...4	Q803N		Y	7110230081	MACHINE SCREW M3*8	8440000018	EA	1.00000	N	
...4	Q803P		Y	1250000415	VA-450 SCREW LOCKING	KG	.00100	N		
...4	RL801	S0	Y	6854000191	RELAY OSA-SS-212DM5 12V OEG	EA	1.00000	N	S	
...4	RL801	S1	Y	6854000221	RELAY G5PA-2 DC12V OMRON	EA	1.00000	N	S	
...4	R804A		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	R804B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	S801A		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	S801B		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	T402A		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	T402B		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	T402C		N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N	
...4	T402D		Y	6714010141	HRNS 1P 110 BRAIDED R4.3D/187N	EA	1.00000	N		
...4	T403A		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	T403B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	T404A		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	T404B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	T405A		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	
...4	T405B		N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N	

Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	T801A			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N		
...4	T801B			N	7740200690-0B	1.6 EYELET FOR NEC	8440002445	EA	1.00000	N		
...4	T802A			N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N		
...4	T802B			N	7740200700-0B	2.0 EYELET FOR NEC	8440002446	EA	1.00000	N		
...4	U1519			N	6831151900-02	PCB MAIN BD PWB-1519		EA	1.00000	N	S	
...4	VR401			Y	6242303001	VR KOHM 30 0.1 W TA B 6D F		EA	1.00000	N		
...4	VR402			Y	6242203001	VR,KOHM, 20,0.1 W,TA,B, 6D,F		EA	1.00000	B		
...4	VR403			Y	6242502001	VR,KOHM, 5,0.1 W,TA,B, 6D,F		EA	1.00000	B		
...4	VR404			Y	6246505000	VR MOHM 5 0.5 W TA B 8D		EA	1.00000	N		
...4	VR801			Y	6242102001	VR,KOHM, 1,0.1 W,TA,B, 6D,F		EA	1.00000	B		
...4	X701A			Y	6524025016	WIRE 1007 #24 BLU 25MM 6/6		EA	1.00000	N		
...4	ZD402			Y	6700060000	JUMPER WIRE		KG	.00009	N		
...4	ZD701	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD701	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD702	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD702	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD703	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD703	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD704	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD704	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD705	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD705	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD706	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD706	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		
...4	ZD707	S0		Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26		EA	1.00000	N		
...4	ZD707	S1		Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26		EA	1.00000	N		

...4	ZD708	S0	Y	6414051084	DIODE ZNR GDZJ 5.1B T/B T26	EA	1.00000	N
...4	ZD708	S1	Y	6414051024	DIODE ZNR MTZJ T-77 5.1B T26	EA	1.00000	N
...4	ZD709	S0	Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26	EA	1.00000	N
...4	ZD709	S1	Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26	EA	1.00000	N
...4	ZD710	S0	Y	6414056074	DIODE ZNR GDZJ 5.6B T/B T26	EA	1.00000	N
...4	ZD710	S1	Y	6414056014	DIODE ZNR MTZJ T-77 5.6B T26	EA	1.00000	N
...4	ZD802		Y	6414063014	DIODE ZNR GDZL-6H3-TA 6.3V T26	EA	1.00000	N
...4	ZD803	S0	Y	6414110054	DIODE ZNR GDZJ 11A T/B T26	EA	1.00000	N
...4	ZD807	S0	Y	6414220054	DIODE ZNR GDZJ 22D T/B T26	EA	1.00000	N
...4	ZD807	S1	Y	6414220024	DIODE ZNR MTZJ T-77 22D DO-34	EA	1.00000	N
...4	0BURN		Y	6631010022	TEST PIN 1P D2.36xL14.3 JWT	EA	1.00000	N
...4	0C122		Y	6335110315	CD uF 0.01 50V K Y5P T	EA	1.00000	N
...4	0C301		Y	6335133115	CD pF 330 50V K Y5P T	EA	1.00000	N
...4	0C302		Y	6311410145	ALU uF 100 35V T 105C 8x12	EA	1.00000	N
...4	0C303		Y	6311210245	ALU uF 1000 16V T 105C 10x20	EA	1.00000	N
...4	0C304		Y	6321122452	MEF uF 0.22 100V J F P=10	EA	1.00000	N
...4	0C305		Y	6311210245	ALU uF 1000 16V T 105C 10x20	EA	1.00000	N
...4	0C306		Y	6357110455	PEM uF 0.1 50V J T	EA	1.00000	N
...4	0C310		Y	6357147255	PEM,pF, 4700, 50V,J,T	EA	1.00000	N
...4	0C311		Y	6311501045	ALU uF 1 50V T 105C 5x11	EA	1.00000	N
...4	0C312		Y	6311501045	ALU uF 1 50V T 105C 5x11	EA	1.00000	N
...4	0C401		Y	6311210145	ALU uF 100 16V T 105C 6.3x11	EA	1.00000	N
...4	0C402		Y	6311547845	ALU uF 0.47 50V T 105C 5x11	EA	1.00000	N
...4	0C403		Y	6311547845	ALU uF 0.47 50V T 105C 5x11	EA	1.00000	N
...4	0C404		Y	6357133355	PEM uF 0.033 50V J T	EA	1.00000	N
...4	0C405		Y	6311210145	ALU uF 100 16V T 105C 6.3x11	EA	1.00000	N

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0C406	S0		Y	6325941253-03	PPS pF 4100 1800VH JFP27.5PHS		EA	1.00000	N		
...4	0C407			Y	6326315446	MPP uF 0.15 400V H F P=15 HJC		EA	1.00000	N		
...4	0C408			Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N		
...4	0C409			Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N		
...4	0C410			Y	6326330442	MPP uF 0.3 400V J F P=22.5HJC		EA	1.00000	N		
...4	0C411			Y	6311122145	ALU uF 220 10V T 105C 6.3x11		EA	1.00000	N		
...4	0C412			Y	6338418115	CD pF 180 500V K X7R T		EA	1.00000	N		
...4	0C413			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N		
...4	0C414			Y	6326212442	MPP uF 0.12 250V J F P=15 HJC		EA	1.00000	N		
...4	0C416			Y	6356168455	MEM uF 0.68 50V J T		EA	1.00000	N		
...4	0C417			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N		
...4	0C418			Y	6311547945	ALU uF 4.7 50V T 105C 5x11		EA	1.00000	N		
...4	0C419			Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N		
...4	0C420			Y	6325212252	PPS uF 0.0012 1200V J F P=22.5		EA	1.00000	N		
...4	0C421			Y	6311522945	ALU uF 2.2 50V T 105C 5x11		EA	1.00000	N		
...4	0C422			Y	6356147455	MEM,uF,0.47 , 50V,J,T		EA	1.00000	N		
...4	0C423			Y	6357110355	PEM uF 0.01 50V J T		EA	1.00000	N		
...4	0C424			Y	6311322045	ALU uF 22 25V T 105C 5x11		EA	1.00000	N		
...4	0C425			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N		
...4	0C426			Y	6312422945	ALU uF 2.2 250V T 105C 8x12		EA	1.00000	N		
...4	0C427			Y	6311210145	ALU uF 100 16V T 105C 6.3x11		EA	1.00000	N		
...4	0C428			Y	6312233045	ALU uF 33 160V T 105C 10x20		EA	1.00000	N		
...4	0C429			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N		
...4	0C430			Y	6338556115	CD pF 560 1000V K X7R T		EA	1.00000	N		
...4	0C431			Y	6312110045	ALU uF 10 100V T 105C 6.3x11		EA	1.00000	N		
...4	0C432			Y	6357110455	PEM uF 0.1 50V J T		EA	1.00000	N		
...4	0C433			Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N		
...4	0C434			Y	6312310045	ALU uF 10 200V T 105C 10x16		EA	1.00000	N		
...4	0C435			Y	6321210452-01	MEF uF 0.1 250V J F P=10		EA	1.00000	N		
...4	0C436			Y	6356133455	MEM,uF,0.33 , 50V,J,T		EA	1.00000	N		
...4	0C437			Y	6356147455	MEM,uF,0.47 , 50V,J,T		EA	1.00000	N		
...4	0C438			Y	6356115455	MEM uF 0.15 50V J T		EA	1.00000	N		
...4	0C439			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N		
...4	0C440			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N		
...4	0C441			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N		
...4	0C442			Y	6311233145	ALU uF 330 16V T 105C 8x12		EA	1.00000	N		
...4	0C443			Y	6338418115	CD pF 180 500V K X7R T		EA	1.00000	N		
...4	0C444			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N		
...4	0C445			Y	6338418115	CD pF 180 500V K X7R T		EA	1.00000	N		
...4	0C446			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N		
...4	0C447			Y	6357122355	PEM uF 0.022 50V J T		EA	1.00000	N		

...4	0C449		Y	6357110255	PEM,pF, 1000, 50V,J,T	EA	1.00000	N
...4	0C451		Y	6335110315	CD uF 0.01 50V K Y5P T	EA	1.00000	N
...4	0C452		Y	6311547945	ALU uF 4.7 50V T 105C 5x11	EA	1.00000	N
...4	0C453		Y	6356122455	MEM,uF,0.22 , 50V,J,T	EA	1.00000	N
...4	0C454		Y	6311501045	ALU uF 1 50V T 105C 5x11	EA	1.00000	N
...4	0C455		Y	6312122045	ALU uF 22 100V T 105C 8x12	EA	1.00000	N
...4	0C456		Y	6312115142	ALU uF 150 100V F 105C 13x25	EA	1.00000	N
...4	0C457		Y	6335156115	CD pF 560 50V K Y5P F P=5	EA	1.00000	N
...4	0C458		Y	6335547115	CD pF 470 1000V K Y5P T	EA	1.00000	N
...4	0C460		Y	6335122215	CD pF 2200 50V K Y5P T	EA	1.00000	N
...4	0C461		Y	6338110385	CD uF 0.01 50V Z Y5V T	EA	1.00000	N
1 RI		0		LITE-ON	TECHNOLOGY CORP	.	PAGE: 10	
0				BOM	1 PERT USAGE LISTING	10/16/00	11.01.12	
0 P/	47065	160	23	Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1	U/M: SET	

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0C462			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000		N	
...4	0C463			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000		N	
...4	0C464			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000		N	
...4	0C465			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C466			Y	6356168455	MEM uF 0.68 50V J T		EA	1.00000		N	
...4	0C467			Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000		N	
...4	0C468			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000		N	
...4	0C469			Y	6311547845	ALU uF 0.47 50V T 105C 5x11		EA	1.00000		N	
...4	0C470			Y	6326233442	MPP uF 0.33 250V J F P=15 HJC		EA	1.00000		N	
...4	0C471			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000		N	
...4	0C472			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000		N	
...4	0C473			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C474			Y	6357147355	PEM uF 0.047 50V J T		EA	1.00000		N	
...4	0C476			Y	6338510215	CD pF 1000 1000V K X7R T		EA	1.00000		N	
...4	0C477			N	6321268352	MEF uF 0.068 250V J F P=7.5		EA	1.00000		N	
...4	0C478			Y	6335122215	CD pF 2200 50V K Y5P T		EA	1.00000		N	
...4	0C479			Y	6357110255	PEM,pF, 1000, 50V,J,T		EA	1.00000		N	
...4	0C482			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C483			Y	6326230442	MPP uF 0.30 250V J F P=15 HJC		EA	1.00000		N	
...4	0C484			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C485			Y	6326268442	MPP uF 0.68 250V J F P=22.5HJC		EA	1.00000		N	
...4	0C486			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C487			Y	6357110255	PEM,pF, 1000, 50V,J,T		EA	1.00000		N	
...4	0C488			Y	6357110355	PEM uF 0.01 50V J T		EA	1.00000		N	
...4	0C489			Y	6356110455	MEM,uF,0.1 , 50V,J,T		EA	1.00000		N	
...4	0C490			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000		N	
...4	0C491			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000		N	
...4	0C531			Y	6335147215	CD pF 4700 50V K Y5P T		EA	1.00000		N	
...4	0C532			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C533			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000		N	
...4	0C701			Y	6311222145	ALU uF 220 16V T 105C 8x12		EA	1.00000		N	
...4	0C702			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C703			Y	6331910015	CD pF 10 50V K SL T		EA	1.00000		N	
...4	0C704			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000		N	
...4	0C705			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C706			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C707			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C710			Y	6311222045	??ALU uF 22 16V T 105C 5x11		EA	1.00000		N	
...4	0C711			Y	6331127055	CD pF 27 50V J NPO T		EA	1.00000		N	
...4	0C712			Y	6331127055	CD pF 27 50V J NPO T		EA	1.00000		N	
...4	0C713			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C715			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C716			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000		N	
...4	0C718			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C719			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000		N	
...4	0C720			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000		N	
...4	0C721			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000		N	
...4	0C722			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C723			Y	6311222045	??ALU uF 22 16V T 105C 5x11		EA	1.00000		N	
...4	0C724			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C725			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000		N	
...4	0C729			Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000		N	
1 RI		0			LITE-ON	TECHNOLOGY CORP	.	PAGE: 11				
0					BOM	1 PERT USAGE LISTING	10/16/00	11.01.12				
0 P/	47065	160	23		Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1	U/M: SET				

Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C730			Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C731			Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C732			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C733			Y	6311110145	ALU uF 100 10V T 105C 5x11		EA	1.00000	N	
...4	0C734			Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C735			Y	6331968055	CD pF 68 50V J SL T		EA	1.00000	N	
...4	0C736			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C737			Y	6335110115	CD pF 100 50V K Y5P T		EA	1.00000	N	
...4	0C738			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C801	S0		Y	6302147182	CD pF 470 400V K F 7.5 Y2 P/O		EA	1.00000	N	S
...4	0C801	S1		Y	6302147172	CD pF 470 400V K F 7.5 Y2 MAT		EA	1.00000	N	S
...4	0C802	S0		Y	6302147182	CD pF 470 400V K F 7.5 Y2 P/O		EA	1.00000	N	S
...4	0C802	S1		Y	6302147172	CD pF 470 400V K F 7.5 Y2 MAT		EA	1.00000	N	S
...4	0C803	S0		Y	6328822419	X2MEF uF 0.22 275V K P=15 HJC		EA	1.00000	N	S
...4	0C803	S1		Y	6328822409	X2MEF uF 0.22 275V M P=15 MAT		EA	1.00000	N	S
...4	0C804			Y	6311310145	ALU uF 100 25V T 105C 6.3x11		EA	1.00000	N	
...4	0C805			Y	6338547115	CD pF 470 1000V K X7R T		EA	1.00000	N	
...4	0C806			Y	6302447242	CD pF 4700 400V M F 10 SY1 MAT		EA	1.00000	N	S
...4	0C808			Y	6312622126	ALU uF 220 400V F 85C 25x40		EA	1.00000	N	
...4	0C809			Y	6336510302	CD uF 0.01 1000V M Z5U F P=10		EA	1.00000	N	
...4	0C810			Y	6311547845	ALU uF 0.47 50V T 105C 5x11		EA	1.00000	N	
...4	0C811			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C812			Y	6311533045	ALU uF 33 50V T 105C 6.3x11		EA	1.00000	N	
...4	0C813			Y	6335182115	CD pF 820 50V K Y5P T		EA	1.00000	N	
...4	0C814			Y	6357147255	PEM,pF, 4700, 50V,J,T		EA	1.00000	N	
...4	0C815			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C816	S0		Y	6328822419	X2MEF uF 0.22 275V K P=15 HJC		EA	1.00000	N	S
...4	0C816	S1		Y	6328822409	X2MEF uF 0.22 275V M P=15 MAT		EA	1.00000	N	S
...4	0C817			Y	6335110215	CD pF 1000 50V K Y5P T		EA	1.00000	N	
...4	0C818			Y	6338110485	CD uF 0.1 50V Z Y5V T		EA	1.00000	N	
...4	0C819			Y	6336510302	CD uF 0.01 1000V M Z5U F P=10		EA	1.00000	N	
...4	0C820	S0		Y	6302422242	CD pF 2200 400V M F 10 SY1 MAT		EA	1.00000	N	S
...4	0C821			Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N	
...4	0C822			Y	6338433115	CD pF 330 500V K X7R T		EA	1.00000	N	
...4	0C823	S0		Y	6302422242	CD pF 2200 400V M F 10 SY1 MAT		EA	1.00000	N	S
...4	0C824			Y	6312133142	ALU uF 330 100V F 105C 16x25		EA	1.00000	N	
...4	0C825			Y	6311222242	ALU uF 2200 16V F 105C 13x25		EA	1.00000	N	
...4	0C826			Y	6311210245	ALU uF 1000 16V T 105C 10x20		EA	1.00000	N	
...4	0C827			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C828			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C829			Y	6312101045	ALU uF 1 100V T 105C 5x11		EA	1.00000	N	
...4	0C830			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C831			Y	6311222145	ALU uF 220 16V T 105C 8x12		EA	1.00000	N	
...4	0C832			Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000	N	
...4	0C833			Y	6312210142	ALU uF 100 160V F 105C 16x25		EA	1.00000	N	
...4	0C834			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C835			Y	6311501045	ALU uF 1 50V T 105C 5x11		EA	1.00000	N	
...4	0C837			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C838			Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000	N	
...4	0C840			Y	6335110315	CD uF 0.01 50V K Y5P T		EA	1.00000	N	
...4	0C841			Y	6311247045	ALU uF 47 16V T 105C 5x11		EA	1.00000	N	
...4	0C842			Y	6311347045	ALU uF 47 25V T 105C 5x11		EA	1.00000	N	

Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0C847			Y	6335147115	CD pF 470 50V K Y5P T		EA	1.00000	N	
...4	0C848			Y	6336510302	CD uF 0.01 1000V M Z5U F P=10		EA	1.00000	N	
...4	0C849	S1		Y	6302110272	CD pF 1000 400V K F 7.5 Y2 MAT		EA	1.00000	N	
...4	0C849	S0		Y	6302110282	CD pF 1000 400V K F 7.5 Y2 P/O		EA	1.00000	N	
...4	0C857			Y	6311247145	ALU uF 470 16V T 105C 10x12.5		EA	1.00000	N	
...4	0C858			Y	6336410305	CD uF 0.01 500V M Z5U T		EA	1.00000	N	
...4	0C859			Y	6311510045	ALU uF 10 50V T 105C 5x11		EA	1.00000	N	
...4	0C860			Y	6311347045	ALU uF 47 25V T 105C 5x11		EA	1.00000	N	
...4	0C862			Y	6338510115	CD pF 100 1000V K X7R T		EA	1.00000	N	
...4	0D121	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D121	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D301			Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D304	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	

...4	0D304	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D305	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D305	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D306	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D306	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D307	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D307	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D308	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D308	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D401	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D401	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D402		Y	6412004337	DIODE UF1002M T52 1A/100V 50nS	EA	1.00000	N
...4	0D403		Y	6412017810	DIODE BY329X-1500S PHILIPS	EA	1.00000	N
...4	0D404	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D404	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D405		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE	EA	1.00000	N
...4	0D406		Y	6412011404	DIODE 1N4937 T26 1A/600V LITE	EA	1.00000	N
...4	0D407	S0	Y	6412021802	DIODE HER305BXF06 3A/400V F/P	EA	1.00000	N
...4	0D407	S1	Y	6412020203	DIODE HER305 BXF 3A/400V FCI	EA	1.00000	N
...4	0D408		Y	6412003617	DIODE UF1004M T52 1A/400V LITE	EA	1.00000	N
...4	0D409		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE	EA	1.00000	N
...4	0D410	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D410	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D411	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D411	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D412	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D412	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D414		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE	EA	1.00000	N
...4	0D415	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D415		Y	6412003304	DIODE 1SS83TD 1A/300V T26	EA	1.00000	N
...4	0D416		Y	6412008207	DIODE PR1002 T52 1A/100V 150nS	EA	1.00000	N
...4	0D417		Y	6412003614	DIODE UF1004M T26 1A/400V LITE	EA	1.00000	N
...4	0D418	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D418	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D419		Y	6412011604	DIODE 1N4936 T26 1A/400V LITE	EA	1.00000	N
...4	0D420	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D420	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N
...4	0D422	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N
...4	0D422	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N

Lev	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0D423	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D423	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D424	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D424	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D425	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D425	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D426			Y	6412008207	DIODE PR1002 T52 1A/100V 150nS		EA	1.00000	N	
...4	0D427	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D427	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D428	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D428	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D429	S0		Y	6412021802	DIODE HER305BXF06 3A/400V F/P		EA	1.00000	N	
...4	0D429	S1		Y	6412020203	DIODE HER305 BXF 3A/400V FCI		EA	1.00000	N	
...4	0D430	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D430	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D431	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D431	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D432	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D432	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D433			Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N	
...4	0D434	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D434	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D435	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D435	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D440	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D440	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	
...4	0D441	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N	
...4	0D441	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N	

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...4	0D442	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D442	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D701	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D701	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D702		Y	6412011904	DIODE SB120 T26 1A/20V	EA	1.00000	N	
...4	0D703	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D703	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D705	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D705	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D706	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D706	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D707	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D707	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D708	S0	Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS	EA	1.00000	N	
...4	0D708	S1	Y	6412001704	DIODE 1N4148 T26 NS	EA	1.00000	N	
...4	0D801	S0	Y	6412011337	DIODE 1N5406T/A 3A/600V T52 TS	EA	1.00000	N	
...4	0D801	S1	Y	6412011307	DIODE 1N5406 T52 3A/600V	EA	1.00000	N	S
...4	0D802	S0	Y	6412011337	DIODE 1N5406T/A 3A/600V T52 TS	EA	1.00000	N	S
...4	0D802	S1	Y	6412011307	DIODE 1N5406 T52 3A/600V	EA	1.00000	N	S
...4	0D803	S0	Y	6412011337	DIODE 1N5406T/A 3A/600V T52 TS	EA	1.00000	N	S
...4	0D803	S1	Y	6412011307	DIODE 1N5406 T52 3A/600V	EA	1.00000	N	S
...4	0D804	S0	Y	6412011337	DIODE 1N5406T/A 3A/600V T52 TS	EA	1.00000	N	S
...4	0D804	S1	Y	6412011307	DIODE 1N5406 T52 3A/600V	EA	1.00000	N	S
...4	0D805		Y	6412007927	DIODE FUF4006AMP T52 1A/800V	EA	1.00000	N	

Lev	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S	
...4	0D806			Y	6412003614	DIODE UF1004M T26 1A/400V LITE		EA	1.00000	N			
...4	0D807	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D807	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D809			Y	6412011604	DIODE 1N4936 T26 1A/400V LITE		EA	1.00000	N			
...4	0D810	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D810	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D811	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D811	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D812			Y	6412000804	DIODE 1N4002 T26 (LITE-ON)		EA	1.00000	B			
...4	0D813	S2		Y	6412000520	DIODE RL4A 3A/600V 50nS SANKEN		EA	1.00000	N			0023
...4	0D813	S0		Y	6412021602	DIODE FE30-04BXF06 3A/400V F/P		EA	1.00000	N			
...4	0D813	S1		Y	6412020103	DIODE SF36S BXF 3A/400V FCI		EA	1.00000	N			
...4	0D814	S2		Y	6412017900	DIODE RL3 3.5A/350V SANKEN		EA	1.00000	N			0024
...4	0D814	S0		Y	6412021702	DIODE FE30-02BXF06 3A/200V F/P		EA	1.00000	N			
...4	0D814	S1		Y	6412019803	DIODE SF34S BXF 3A/200V FCI		EA	1.00000	N			
...4	0D815			Y	6412004117	DIODE UF2004M T52 2A/400V 50nS		EA	1.00000	N			
...4	0D817			Y	6412000520	DIODE RL4A 3A/600V 50nS SANKEN		EA	1.00000	N			0025
...4	0D818			Y	6412004117	DIODE UF2004M T52 2A/400V 50nS		EA	1.00000	N			
...4	0D820	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D820	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D821	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D821	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D824	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D824	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D825	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D825	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D827	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D827	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D828	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D828	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0D829	S0		Y	6412001764	DIODE 1N4148/S-143 T26 PHILIPS		EA	1.00000	N			
...4	0D829	S1		Y	6412001704	DIODE 1N4148 T26 NS		EA	1.00000	N			
...4	0F801	S0		Y	6851504053	FUSE TIME LAG H-BRK LF-215004		EA	1.00000	N		S	
...4	0F801	S1		Y	6851504051	FUSE TIME LAG H-BRK 19181-4A		EA	1.00000	B		S	
...4	0GND1			Y	6631010022	TEST PIN 1P D2.36xL14.3 JWT		EA	1.00000	N			
...4	0GND2			Y	6631010022	TEST PIN 1P D2.36xL14.3 JWT		EA	1.00000	N			
...4	0I301			Y	6442006200	IC TDA8172 7P		EA	1.00000	B			
...4	0I401			Y	6442029200	IC KB2512 32P SDIP		EA	1.00000	N			0026
...4	0I402	S0		Y	6442026500	IC KA7500B SAMSUNG		EA	1.00000	N			0027
...4	0I402	S1		Y	6442002800	IC TL494CN 16P (TI)		EA	1.00000	N			
...4	0I701			Y	6448016310	IC NT6861BU-00062 42P SDIPMASK		EA	1.00000	N			21
...4	0I702			Y	6448007430	IC 24LC211/P 8P EEPROM (MC)		EA	1.00000	N			21
...4	0I703			Y	6448007460	IC 24LC04B/P 8P PDIP EEPROM		EA	1.00000	N			21

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...4	0I801	S0	Y	6442023500	IC KA3843AC 8P PDIP SAMSUNG	EA	1.00000	N
...4	0I802		Y	6442018105	IC KA78L08AZTA 3P TO-92 TAPING	EA	1.00000	N
...4	0I804		Y	6442000845	IC KA78L05AZTA 3P PDIP SAMSUNG	EA	1.00000	N
...4	0I805		Y	6442014000	IC LTV-817D 4P PDIP (LITE ON)	EA	1.00000	N
...4	0I806		Y	6442014000	IC LTV-817D 4P PDIP (LITE ON)	EA	1.00000	N
...4	0J001		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J002		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J003		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J004		Y	6700060000	JUMPER WIRE	KG	.00009	N

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0J005			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J006			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J007			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J008			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J009			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J010			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J011			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J012			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J013			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J014			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J015			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J016			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J017			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J018			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J019			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J020			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J021			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J022			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J023			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J024			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J025			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J026			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J027			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J028			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J029			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J030			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J031			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J032			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J033			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J034			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J035			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J036			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J037			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J038			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J039			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J040			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J041			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J042			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J043			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J044			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J045			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J046			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J047			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J048			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J049			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J050			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J051			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J052			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J053			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J054			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J055			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0J056			Y	6700060000	JUMPER WIRE		KG	.00009		N	

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S

...4	0J057		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J058		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J059		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J060		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J061		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J062		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J063		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J064		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J065		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J066		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J067		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J068		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J069		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J070		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J071		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J072		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J073		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J074		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J075		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J076		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J077		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J078		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J079		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J080		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J081		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J082		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J083		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J084		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J085		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J086		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J087		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J088		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J089		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J090		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J092		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J093		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J094		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J095		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J096		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J097		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J098		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J099		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J100		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J101		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J102		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J103		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J104		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J105		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J106		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J107		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J108		Y	6700060000	JUMPER WIRE	KG .00009	N
...4	0J109		Y	6700060000	JUMPER WIRE	KG .00009	N

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0J110			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J111			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J112			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J113			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J114			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J115			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J116			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J117			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J118			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J119			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J120			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J121			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J122			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J123			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0J124			Y	6700060000	JUMPER WIRE		KG	.00009	N	

...4	0J125		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J126		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J127		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J128		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J129		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J130		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J131		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J132		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J133		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J134		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J135		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J136		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J137		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J138		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J139		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J140		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J141		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J142		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J143		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J144		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J145		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J146		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J147		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J148		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J149		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J150		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J151		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J152		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J153		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J154		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J155		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J156		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J157		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J158		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J159		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J160		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0J161		Y	6700060000	JUMPER WIRE	KG	.00009	N

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage Qty	B/N	S
...4	0J162			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0L201			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L301			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L302			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L401			Y	6881002732	CORE BEAD C8B R6H6x10(A)+W1.5T		EA	1.00000	N	
...4	0L402			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L406			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L407			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L408			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L409			Y	6700060000	JUMPER WIRE		KG	.00009	N	
...4	0L411			Y	6139000200	XFRMER H-CENT THC-1002 8mH		EA	1.00000	N	
...4	0L412			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L413			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L414			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L415			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L416			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L417			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L418			Y	6115470104	COIL PEAKING 47 uH K T26		EA	1.00000	N	
...4	0L420			Y	6111215130	COIL CHOKE 210uH K DRWW12x16C5		EA	1.00000	N	
...4	0L507			Y	6881002730	CORE BEAD C8B R6H6x10(A)+W.75T		EA	1.00000	N	
...4	0L509			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L701			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L702			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L703			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L704			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L801			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L802			Y	6881001007	BEAD CORE B15 RH3.5x3.5x0.8T52		EA	1.00000	N	
...4	0L803			Y	6881001407	BEAD CORE C8B RH3.5x9x1.0T		EA	1.00000	N	
...4	0L805			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	
...4	0L808			Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52		EA	1.00000	N	

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...4	0L809		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA	1.00000	N		
...4	0L810		Y	6881002732	CORE BEAD C8B R6H6x10(A)+W1.5T	EA	1.00000	N		
...4	0L811		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA	1.00000	N		
...4	0L812		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA	1.00000	N		
...4	0L813		Y	6881002732	CORE BEAD C8B R6H6x10(A)+W1.5T	EA	1.00000	N		
...4	0L814		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA	1.00000	N		
...4	0L815		Y	6881002730	CORE BEAD C8B R6H6x10(A)+W.75T	EA	1.00000	N		
...4	0L816		Y	6881001507	BEAD CORE W5 RH3.5x6x1.0 T52	EA	1.00000	N		
...4	0P121		Y	6611020021	PLUG 2P 2.5 JWT-A2501WV2-2P	EA	1.00000	N		
...4	0P301	S0	Y	6611040065	PLUG 4P 10/8/8mm A2361WV2-A4PK	EA	1.00000	N		
...4	0P301	S1	Y	6611040062	PLUG 4P 10/8/8SLIDE NICKLE AMP	EA	1.00000	N		
...4	0P802		Y	6614020030	WAFER 2P 8-10mm 1086P020001	EA	1.00000	N	S	
...4	0P804	S0	Y	6611020091	PLUG 2P 2.54mm A2541WV2-2P JWT	EA	1.00000	N		
...4	0P804	S1	Y	6611020090	PLUG 2P 2.54mm PHSS-2P	EA	1.00000	N		
...4	0Q121		Y	6421001405	TR NPN KSC2328A-Y-TA FAIRCHILD	EA	1.00000	B		0029
...4	0Q122		Y	6424000905	TR PNP KSA928A-Y-TA FAIRCHILD	EA	1.00000	B		0030
...4	0Q123		Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD	EA	1.00000	B		
...4	0Q301		Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015	EA	1.00000	B		
...4	0Q302		Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015	EA	1.00000	B		
...4	0Q303		Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD	EA	1.00000	B		
...4	0Q401		Y	6421002705	TR NPN KSD1616A-G-TA TO-92 TAP	EA	1.00000	N		0031
...4	0Q402		N	6421004420	TR NPN 2SC5386 (Hfe:4.5-6.5)	EA	1.00000	N		n.l.

Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S	
...4	0Q403			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q404			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q405			Y	6426006300	FET N-CHNL IRFS634A FAIRCHILD		EA	1.00000	N			0032
...4	0Q406			Y	6421001405	TR NPN KSC2328A-Y-TA FAIRCHILD		EA	1.00000	B			0033
...4	0Q407			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q410			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q411			Y	6426009400	FET N-CHNL IRFS830A FAIRCHILD		EA	1.00000	N			0034
...4	0Q412			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q413	S0		Y	6426009100	FET N-CHNL IRF630A FAIRCHILD		EA	1.00000	N			
...4	0Q413	S1		Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N			
...4	0Q414			Y	6422002925	TR NPN HBF422T/B TO-92 TAPING		EA	1.00000	N			
...4	0Q415			Y	6421003800	TR NPN KSD882-Y FAIRCHILD		EA	1.00000	N			0035
...4	0Q416	S0		Y	6426009100	FET N-CHNL IRF630A FAIRCHILD		EA	1.00000	N			
...4	0Q416	S1		Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N			
...4	0Q418			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q419			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q420	S0		Y	6424002215	TR PNP HBF423T/B TO-92 TAPING		EA	1.00000	N			
...4	0Q420	S1		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B			
...4	0Q421			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q422	S0		Y	6424002215	TR PNP HBF423T/B TO-92 TAPING		EA	1.00000	N			
...4	0Q422	S1		Y	6424000025	TR PNP BF423(TPE2) (TOSHIBA)		EA	1.00000	B			
...4	0Q423			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q424			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q425			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q426			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q427			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q428			Y	6426006400	FET N-CHNL IRFS630A SAMSUNG		EA	1.00000	N			
...4	0Q429			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q430			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q431			Y	6422002925	TR NPN HBF422T/B TO-92 TAPING		EA	1.00000	N			
...4	0Q432			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q433			Y	6426005201	FET N-CHNL IRFS640A FAIRCHILD		EA	1.00000	N			
...4	0Q434			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q435			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q437			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q438			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q439			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q440			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000	B			
...4	0Q441			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q442			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q443			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q701			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q801			Y	6421005800	TR NPN KSP44 TO-92 FAIRCHILD		EA	1.00000	N			0036
...4	0Q802			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000	B			
...4	0Q803	S0		Y	6426006700	FET N-CHNL SSS7N60A (SAMSUNG)		EA	1.00000	N		S	n.l.

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...4	0Q803	S1		Y	6426004600	FET N-CHNL 2SK2645-01MR FUJI	EA	1.00000	N S
...4	0Q804			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015	EA	1.00000	B
...4	0Q805			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD	EA	1.00000	B
...4	0Q811			Y	6424000905	TR PNP KSA928A-Y-TA FAIRCHILD	EA	1.00000	B
...4	0Q812			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD	EA	1.00000	B
...4	0Q813			Y	6424003300	TR PNP KSB772-Y FAIRCHILD	EA	1.00000	N
...4	0Q814			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD	EA	1.00000	B

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Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0Q815			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000		B	
...4	0Q816			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000		B	
...4	0Q819			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000		B	
...4	0Q820			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000		B	
...4	0Q821			Y	6421000515	TR NPN KSC945C-G-TA FAIRCHILD		EA	1.00000		B	
...4	0Q822			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000		B	
...4	0Q823			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000		B	
...4	0Q825			Y	6423000115	TR PNP KSA733C-Y-TA frmKSA1015		EA	1.00000		B	
...4	0R101			Y	6212110954	CF OHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R102			Y	6212110954	CF OHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R121			Y	6212139254	CF KOHM 3.9 1/4W J T26 MINI		EA	1.00000		N	
...4	0R122			Y	6212175054	CF OHM 75 1/4W J T26 MINI		EA	1.00000		N	
...4	0R123			Y	6212191154	CF OHM 910 1/4W J T26 MINI		EA	1.00000		N	
...4	0R301			Y	6212112354	CF KOHM 12 1/4W J T26 MINI		EA	1.00000		N	
...4	0R302			Y	6221227952	MOF OHM 2.7 2W J HOR		EA	1.00000		N	
...4	0R303			Y	6212315957	CF , OHM, 1.5 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R304			Y	6221227952	MOF OHM 2.7 2W J HOR		EA	1.00000		N	
...4	0R305			Y	6212347157	CF , OHM,470 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R306			Y	6221101052	MOF OHM 1 1W J HOR		EA	1.00000		N	
...4	0R307			Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000		N	
...4	0R308			Y	6224139014	MF KOHM 3.9 1/8W F T26		EA	1.00000		N	
...4	0R309			Y	6224123724	MF KOHM 23.7 1/8W F T26		EA	1.00000		N	
...4	0R310			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R311			Y	6212133254	CF KOHM 3.3 1/4W J T26 MINI		EA	1.00000		N	
...4	0R312			Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R313			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R314			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R315			Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A0			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A1			Y	6221215952	MOF OHM 1.5 2W J HOR		EA	1.00000		N	
...4	0R4A2			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A4			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A5			Y	6212310157	CF , OHM,100 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R4A6			Y	6221218952	MOF OHM 1.8 2W J HOR		EA	1.00000		N	
...4	0R4A7			Y	6212115354	CF KOHM 15 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A8			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4A9			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4C1			Y	6212356357	CF ,KOHM, 56 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R4C2			Y	6212239254	CF KOHM 3.9 1/4W J T26		EA	1.00000		N	
...4	0R4C3			Y	6221168252	MOF KOHM 6.8 1W J HOR		EA	1.00000		N	
...4	0R4C4			Y	6212139254	CF KOHM 3.9 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4C5			Y	6221168252	MOF KOHM 6.8 1W J HOR		EA	1.00000		N	
...4	0R4C6			Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4C7			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4C8			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4C9			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E0			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E1			Y	6212139254	CF KOHM 3.9 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E2			Y	6212156354	CF KOHM 56 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E3			Y	6212130254	CF KOHM 3 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E4			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E5			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	

Levi	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R4E6			Y	6212115254	CF KOHM 1.5 1/4W J T26 MINI		EA	1.00000		N	
...4	0R4E7			Y	6212118254	CF KOHM 1.8 1/4W J T26 MINI		EA	1.00000		N	

...4	0R4E8		Y	6212133254	CF KOHM 3.3 1/4W J T26 MINI	EA	1.00000	N
...4	0R4E9		Y	6212133154	CF OHM 330 1/4W J T26 MINI	EA	1.00000	N
...4	0R4F0		Y	6212133354	CF KOHM 33 1/4W J T26 MINI	EA	1.00000	N
...4	0R4F2		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R401		Y	6221133152	MOF OHM 330 1W J HOR	EA	1.00000	N
...4	0R402		Y	6212147154	CF OHM 470 1/4W J T26 MINI	EA	1.00000	N
...4	0R403		Y	6221215952	MOF OHM 1.5 2W J HOR	EA	1.00000	N
...4	0R404		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R405		Y	6212322057	CF , OHM, 22 ,1/2W,J,AT52	EA	1.00000	N
...4	0R406		Y	6212139454	CF KOHM 390 1/4W J T26 MINI	EA	1.00000	N
...4	0R407		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R408		Y	6212136454	CF KOHM 360 1/4W J T26 MINI	EA	1.00000	N
...4	0R409		Y	6224143224	MF KOHM 43.2 1/8W F T26	EA	1.00000	N
...4	0R410		Y	6224128024	MF KOHM 28 1/8W F T26	EA	1.00000	N
...4	0R411		Y	6212133054	CF OHM 33 1/4W J T26 MINI	EA	1.00000	N
...4	0R412		Y	6212115254	CF KOHM 1.5 1/4W J T26 MINI	EA	1.00000	N
...4	0R413		Y	6212120354	CF KOHM 20 1/4W J T26 MINI	EA	1.00000	N
...4	0R414		Y	6221247852	MOF OHM 0.47 2W J HOR	EA	1.00000	N
...4	0R415		Y	6221333252	MOF KOHM 3.3 3W J HOR	EA	1.00000	N
...4	0R416		Y	6228182557	MGF MOHM 8.2 1/4W J AT52	EA	1.00000	N
...4	0R417		Y	6221212152	MOF OHM 120 2W J HOR	EA	1.00000	N
...4	0R418		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N
...4	0R419		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R421		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R422		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N
...4	0R423		Y	6212168354	CF KOHM 68 1/4W J T26 MINI	EA	1.00000	N
...4	0R424		Y	6212130254	CF KOHM 3 1/4W J T26 MINI	EA	1.00000	N
...4	0R425		Y	6212133254	CF KOHM 3.3 1/4W J T26 MINI	EA	1.00000	N
...4	0R426		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N
...4	0R427		Y	6212151154	CF OHM 510 1/4W J T26 MINI	EA	1.00000	N
...4	0R428		Y	6221222152	MOF OHM 220 2W J HOR	EA	1.00000	N
...4	0R429		Y	6212147354	CF KOHM 47 1/4W J T26 MINI	EA	1.00000	N
...4	0R430		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI	EA	1.00000	N
...4	0R431		Y	6212139454	CF KOHM 390 1/4W J T26 MINI	EA	1.00000	N
...4	0R432		Y	6212120354	CF KOHM 20 1/4W J T26 MINI	EA	1.00000	N
...4	0R433		Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI	EA	1.00000	N
...4	0R434		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R435		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R436		Y	6212333157	CF , OHM,330 ,1/2W,J,AT52	EA	1.00000	N
...4	0R437		Y	6212147054	CF OHM 47 1/4W J T26 MINI	EA	1.00000	N
...4	0R438		Y	6212147354	CF KOHM 47 1/4W J T26 MINI	EA	1.00000	N
...4	0R439		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R440		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R441		Y	6228182557	MGF MOHM 8.2 1/4W J AT52	EA	1.00000	N
...4	0R442		Y	6212315457	CF ,KOHM,150 ,1/2W,J,AT52	EA	1.00000	N
...4	0R443		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N
...4	0R444		Y	6224151114	MF KOHM 5.11 1/8W F T26	EA	1.00000	N
...4	0R445		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R446		Y	6700060000	JUMPER WIRE	KG	.00009	N
...4	0R447		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N

Lev	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R448			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R449			Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R450			Y	6224110014	MF KOHM 1 1/8W F T26		EA	1.00000		N	
...4	0R451			Y	6221210052	MOF OHM 10 2W J HOR		EA	1.00000		N	
...4	0R452			Y	6212156254	CF KOHM 5.6 1/4W J T26 MINI		EA	1.00000		N	
...4	0R453			Y	6212182354	CF KOHM 82 1/4W J T26 MINI		EA	1.00000		N	
...4	0R454			Y	6212110554	CF MOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R455			Y	6221110452	MOF KOHM 100 1W J HOR		EA	1.00000		N	
...4	0R456			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R457			Y	6212127254	CF KOHM 2.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R458			Y	6224115014	MF KOHM 1.50 1/8W F T26		EA	1.00000		N	
...4	0R459			Y	6212130254	CF KOHM 3 1/4W J T26 MINI		EA	1.00000		N	
...4	0R460			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R461			Y	6212315357	CF ,KOHM, 15 ,1/2W,J,AT52		EA	1.00000		N	
...4	0R462			Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000		N	
...4	0R464			Y	6212168154	CF OHM 680 1/4W J T26 MINI		EA	1.00000		N	
...4	0R465			Y	6212122954	CF OHM 2.2 1/4W J T26 MINI		EA	1.00000		N	

...4	0R466		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R467		Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA 1.00000	N
...4	0R468		Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI	EA 1.00000	N
...4	0R469		Y	6212130354	CF KOHM 30 1/4W J T26 MINI	EA 1.00000	N
...4	0R470		Y	6212110154	CF OHM 100 1/4W J T26 MINI	EA 1.00000	N
...4	0R471		Y	6224156214	MF KOHM 5.62 1/8W F T26	EA 1.00000	N
...4	0R473		Y	6212110154	CF OHM 100 1/4W J T26 MINI	EA 1.00000	N
...4	0R476		Y	6212115254	CF KOHM 1.5 1/4W J T26 MINI	EA 1.00000	N
...4	0R477		Y	6212120254	CF KOHM 2 1/4W J T26 MINI	EA 1.00000	N
...4	0R478		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R479		Y	6212175254	CF KOHM 7.5 1/4W J T26 MINI	EA 1.00000	N
...4	0R480		Y	6212110554	CF MOHM 1 1/4W J T26 MINI	EA 1.00000	N
...4	0R481		Y	6212115354	CF KOHM 15 1/4W J T26 MINI	EA 1.00000	N
...4	0R482		Y	6224115024	MF KOHM 15 1/8W F T26	EA 1.00000	N
...4	0R483		Y	6228182557	MGF MOHM 8.2 1/4W J AT52	EA 1.00000	N
...4	0R484		Y	6212156554	CF MOHM 5.6 1/4W J T26 MINI	EA 1.00000	N
...4	0R485		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R486		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA 1.00000	N
...4	0R487		Y	6212120354	CF KOHM 20 1/4W J T26 MINI	EA 1.00000	N
...4	0R488		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R489		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R490		Y	6212110554	CF MOHM 1 1/4W J T26 MINI	EA 1.00000	N
...4	0R491		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R492		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R493		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R494		Y	6212110554	CF MOHM 1 1/4W J T26 MINI	EA 1.00000	N
...4	0R495		Y	6212162354	CF KOHM 62 1/4W J T26 MINI	EA 1.00000	N
...4	0R497		Y	6212151154	CF OHM 510 1/4W J T26 MINI	EA 1.00000	N
...4	0R498		Y	6212347457	CF ,KOHM,470 ,1/2W,J,AT52	EA 1.00000	N
...4	0R499		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA 1.00000	N
...4	0R701		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA 1.00000	N
...4	0R702		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA 1.00000	N
...4	0R703		Y	6212110154	CF OHM 100 1/4W J T26 MINI	EA 1.00000	N
...4	0R704		Y	6212110154	CF OHM 100 1/4W J T26 MINI	EA 1.00000	N
...4	0R707		Y	6212168154	CF OHM 680 1/4W J T26 MINI	EA 1.00000	N

Lev	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R708			Y	6212168154	CF OHM 680 1/4W J T26 MINI		EA	1.00000		N	
...4	0R709			Y	6212110054	CF OHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R710			Y	6224168114	MF KOHM 6.81 1/8W F T26		EA	1.00000		N	
...4	0R711			Y	6224110024	MF KOHM 10 1/8W F T26		EA	1.00000		N	
...4	0R712			Y	6224147014	MF KOHM 4.7 1/8W F T26		EA	1.00000		N	
...4	0R715			Y	6212147154	CF OHM 470 1/4W J T26 MINI		EA	1.00000		N	
...4	0R720			Y	6212118354	CF KOHM 18 1/4W J T26 MINI		EA	1.00000		N	
...4	0R722			Y	6212112257	CF KOHM 1.2 1/4W J T52 MINI		EA	1.00000		N	
...4	0R723			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R724			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R728			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R729			Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI		EA	1.00000		N	
...4	0R730			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R731			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R732			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R733			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R734			Y	6212110154	CF OHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R735			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R739			Y	6224147014	MF KOHM 4.7 1/8W F T26		EA	1.00000		N	
...4	0R740			Y	6224168114	MF KOHM 6.81 1/8W F T26		EA	1.00000		N	
...4	0R741			Y	6224168114	MF KOHM 6.81 1/8W F T26		EA	1.00000		N	
...4	0R742			Y	6224110024	MF KOHM 10 1/8W F T26		EA	1.00000		N	
...4	0R743			Y	6224168114	MF KOHM 6.81 1/8W F T26		EA	1.00000		N	
...4	0R744			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R748			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R757			Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000		N	
...4	0R758			Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000		N	
...4	0R759			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R760			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R761			Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000		N	
...4	0R762			Y	6212133054	CF OHM 33 1/4W J T26 MINI		EA	1.00000		N	
...4	0R764			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	

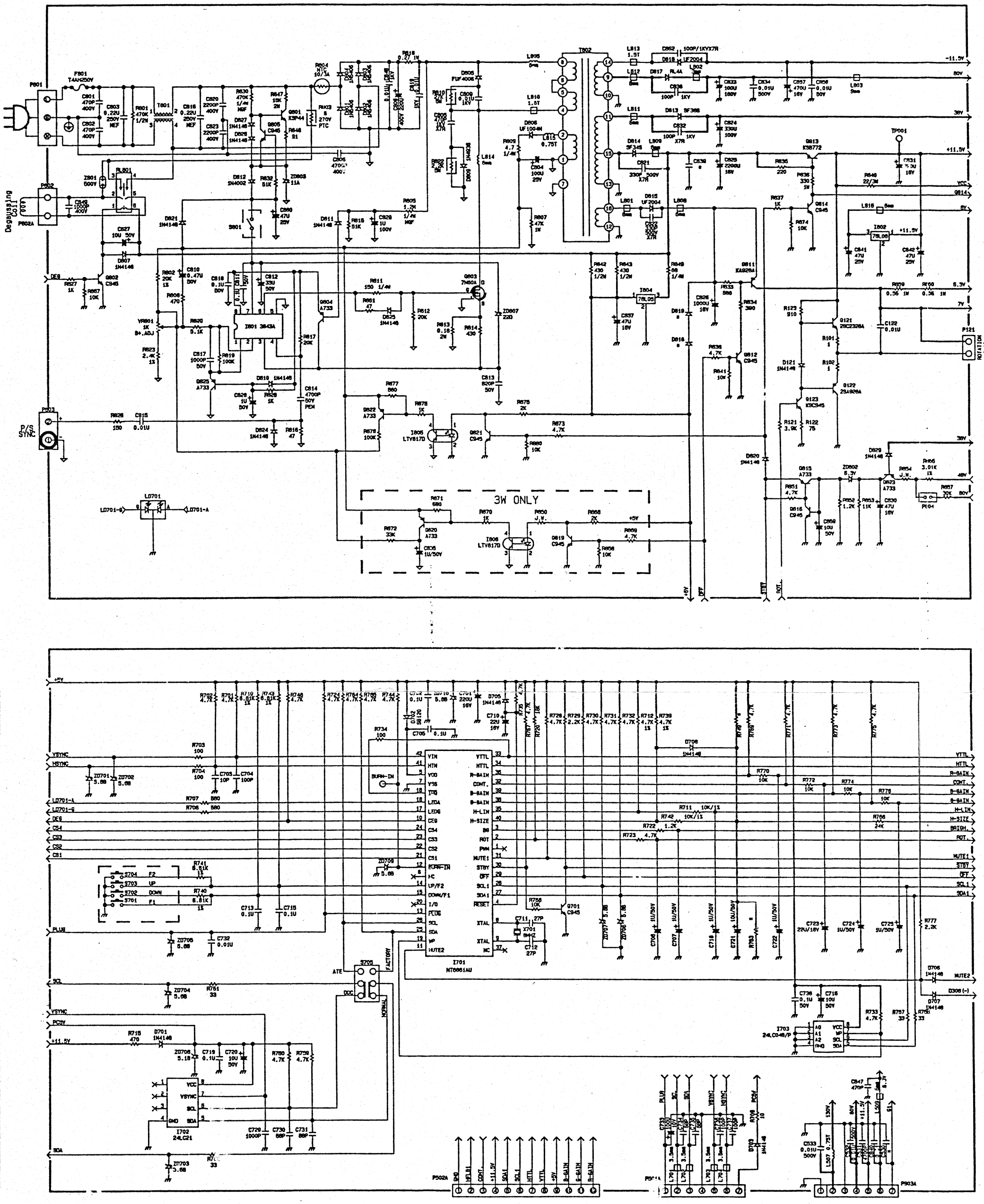
...4	0R765		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R766		Y	6212124354	CF KOHM 24 1/4W J T26 MINI	EA	1.00000	N
...4	0R767		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R768		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R769		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R770		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R771		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R772		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R773		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R774		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R775		Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R776		Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R777		Y	6212122254	CF KOHM 2.2 1/4W J T26 MINI	EA	1.00000	N
...4	0R801		Y	6212347457	CF ,KOHM,470 ,1/2W,J,AT52	EA	1.00000	N
...4	0R802		Y	6212120354	CF KOHM 20 1/4W J T26 MINI	EA	1.00000	N
...4	0R803		Y	6203080017	POSISTOR 8 OHM DGC2R08M	EA	1.00000	N S
...4	0R804		Y	6201100012	THERMISTOR 10 OHM 3A P=5.0 TKS	EA	1.00000	N S
...4	0R805		Y	6228112557	MGF MOHM 1.2 1/4W J AT52	EA	1.00000	N
...4	0R807		Y	6221147352	MOF KOHM 47 1W J HOR	EA	1.00000	N
...4	0R808		Y	6212147154	CF OHM 470 1/4W J T26 MINI	EA	1.00000	N

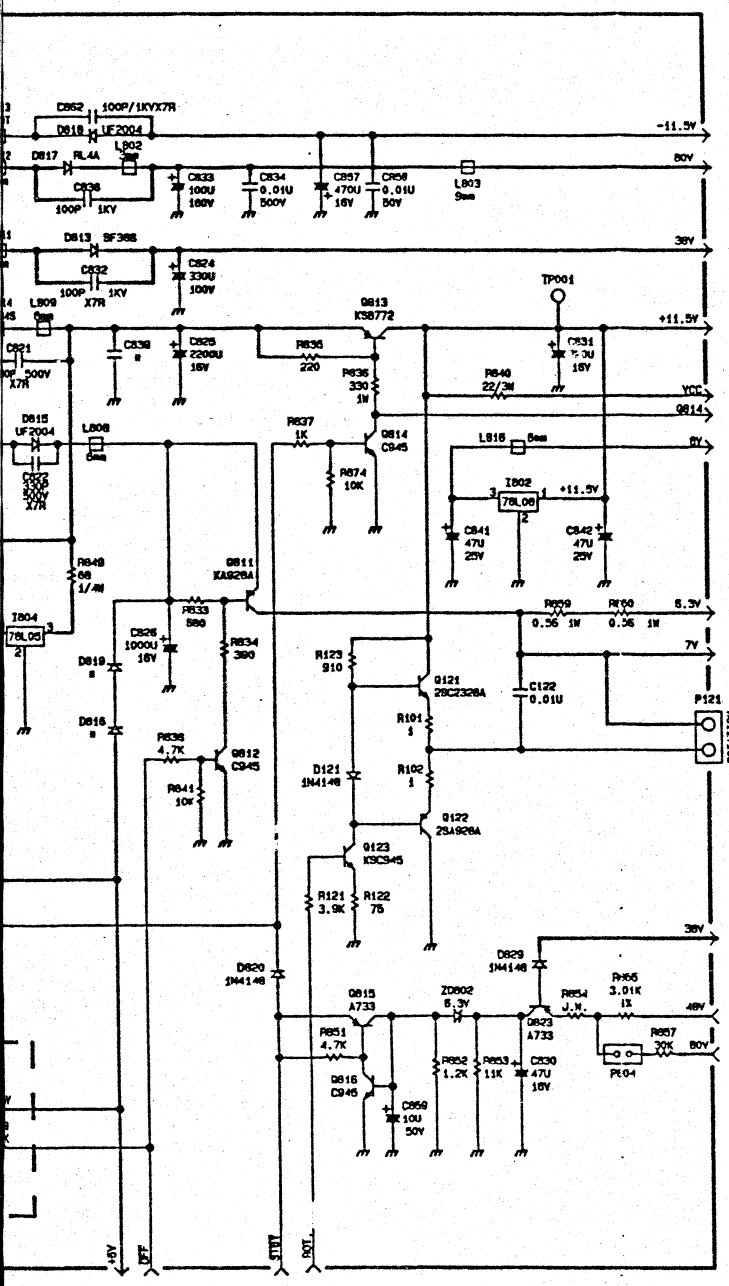
Lev	CktId	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R809			Y	6212247954	CF OHM 4.7 1/4W J T26		EA	1.00000		N	
...4	0R810			Y	6221527359	MOF KOHM 27 5W J RSN-Z TAI		EA	1.00000		N	
...4	0R811			Y	6212115154	CF OHM 150 1/4W J T26 MINI		EA	1.00000		N	
...4	0R812			Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000		N	
...4	0R813			Y	6221218852	MOF OHM 0.18 2W J HOR		EA	1.00000		N	
...4	0R814			Y	6212143154	CF OHM 430 1/4W J T26 MINI		EA	1.00000		N	
...4	0R815			Y	6212151354	CF KOHM 51 1/4W J T26 MINI		EA	1.00000		N	
...4	0R816			Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R817			Y	6212120354	CF KOHM 20 1/4W J T26 MINI		EA	1.00000		N	
...4	0R818			Y	6221127852	MOF OHM 0.27 1W J HOR		EA	1.00000		N	
...4	0R819			Y	6212110454	CF KOHM 100 1/4W J T26 MINI		EA	1.00000		N	
...4	0R820			Y	6212151254	CF KOHM 5.1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R822			Y	6221522259	MOF KOHM 2.2 5W J RSN-Z TAI		EA	1.00000		N	
...4	0R823			Y	6224124014	MF KOHM 2.4 1/8W F T26		EA	1.00000		N	
...4	0R826			Y	6212115154	CF OHM 150 1/4W J T26 MINI		EA	1.00000		N	
...4	0R827			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R828			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R830			Y	6228147457	MGF KOHM 470 1/4W J AT52		EA	1.00000		N	
...4	0R832			Y	6212151354	CF KOHM 51 1/4W J T26 MINI		EA	1.00000		N	
...4	0R833			Y	6212168154	CF OHM 680 1/4W J T26 MINI		EA	1.00000		N	
...4	0R834			Y	6212139154	CF OHM 390 1/4W J T26 MINI		EA	1.00000		N	
...4	0R835			Y	6212122154	CF OHM 220 1/4W J T26 MINI		EA	1.00000		N	
...4	0R836			Y	6221133152	MOF OHM 330 1W J HOR		EA	1.00000		N	
...4	0R837			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	
...4	0R838			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R840			Y	6221322052	MOF OHM 22 3W J HOR		EA	1.00000		N	
...4	0R841			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R842			Y	6212343157	CF OHM 430 1/2W J AT52		EA	1.00000		N	
...4	0R843			Y	6212343157	CF OHM 430 1/2W J AT52		EA	1.00000		N	
...4	0R847			Y	6221215352	MOF KOHM 15 2W J HOR		EA	1.00000		N	
...4	0R848			Y	6212191054	CF OHM 91 1/4W J T26 MINI		EA	1.00000		N	
...4	0R849			Y	6212268054	CF OHM 68 1/4W J T26		EA	1.00000		N	
...4	0R850			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0R851			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R852			Y	6212112254	CF KOHM 1.2 1/4W J T26 MINI		EA	1.00000		N	
...4	0R853			Y	6212111354	CF KOHM 11 1/4W J T26 MINI		EA	1.00000		N	
...4	0R854			Y	6700060000	JUMPER WIRE		KG	.00009		N	
...4	0R855			Y	6224130114	MF KOHM 3.01 1/8W F T26		EA	1.00000		N	
...4	0R857			Y	6212130354	CF KOHM 30 1/4W J T26 MINI		EA	1.00000		N	
...4	0R858			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R859			Y	6221156852	MOF OHM 0.56 1W J HOR		EA	1.00000		N	
...4	0R860			Y	6221156852	MOF OHM 0.56 1W J HOR		EA	1.00000		N	
...4	0R861			Y	6212147054	CF OHM 47 1/4W J T26 MINI		EA	1.00000		N	
...4	0R867			Y	6212110354	CF KOHM 10 1/4W J T26 MINI		EA	1.00000		N	
...4	0R868			Y	6212120254	CF KOHM 2 1/4W J T26 MINI		EA	1.00000		N	
...4	0R869			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI		EA	1.00000		N	
...4	0R870			Y	6212110254	CF KOHM 1 1/4W J T26 MINI		EA	1.00000		N	

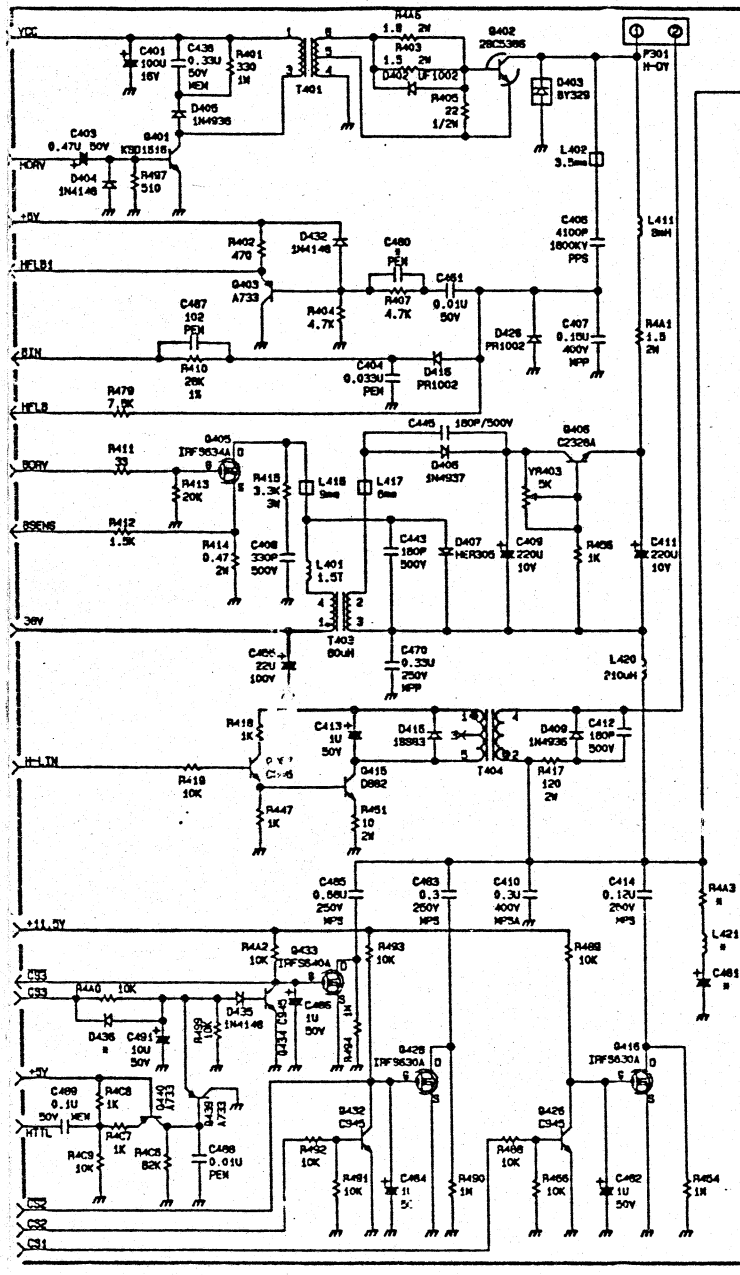
...4	0R871			Y	6212168154	CF OHM 680 1/4W J T26 MINI	EA	1.00000	N
...4	0R872			Y	6212133354	CF KOHM 33 1/4W J T26 MINI	EA	1.00000	N
...4	0R873			Y	6212147254	CF KOHM 4.7 1/4W J T26 MINI	EA	1.00000	N
...4	0R874			Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N
...4	0R875			Y	6212120254	CF KOHM 2 1/4W J T26 MINI	EA	1.00000	N
1 RI		0			LITE-ON	TECHNOLOGY CORP	.	PAGE: 25	
0					BOM	1 PERT USAGE LISTING	10/16/00	11.01.12	
0 P/	47065	160	23		Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1	U/M: SET	

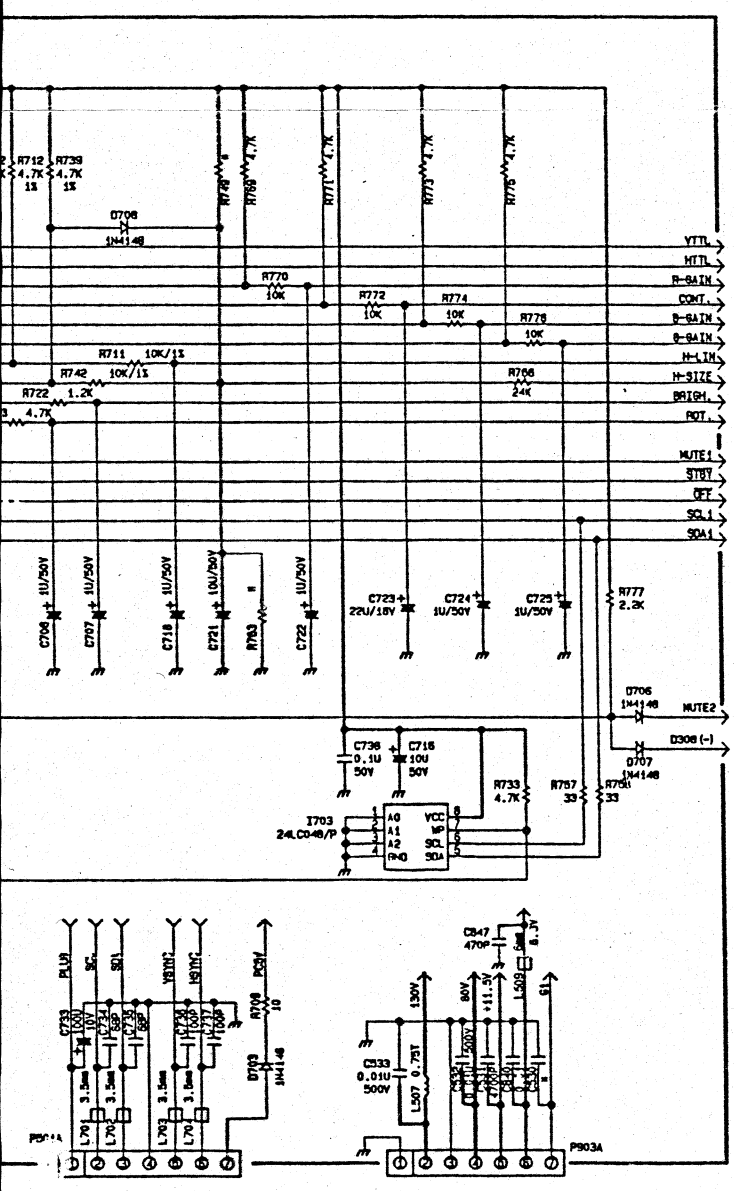
Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
...4	0R876			Y	6212110254	CF KOHM 1 1/4W J T26 MINI	EA	1.00000	N			
...4	0R877			Y	6212168154	CF OHM 680 1/4W J T26 MINI	EA	1.00000	N			
...4	0R878			Y	6212110454	CF KOHM 100 1/4W J T26 MINI	EA	1.00000	N			
...4	0R880			Y	6212110354	CF KOHM 10 1/4W J T26 MINI	EA	1.00000	N			
...4	0S701	S0		Y	6853004121	SW TACT 1Key TSVB-3 RED260gfHJ	EA	1.00000	N			
...4	0S701	S1		Y	6853004131	SW TACT 1Key SFKHLP1534 RED FD	EA	1.00000	N			
...4	0S702	S0		Y	6853004121	SW TACT 1Key TSVB-3 RED260gfHJ	EA	1.00000	N			
...4	0S702	S1		Y	6853004131	SW TACT 1Key SFKHLP1534 RED FD	EA	1.00000	N			
...4	0S703	S0		Y	6853004121	SW TACT 1Key TSVB-3 RED260gfHJ	EA	1.00000	N			
...4	0S703	S1		Y	6853004131	SW TACT 1Key SFKHLP1534 RED FD	EA	1.00000	N			
...4	0S704	S0		Y	6853004121	SW TACT 1Key TSVB-3 RED260gfHJ	EA	1.00000	N			
...4	0S704	S1		Y	6853004131	SW TACT 1Key SFKHLP1534 RED FD	EA	1.00000	N			
...4	0S705			Y	6853000801	SW SLIDE 2P2T SSSF022NA1-UE	EA	1.00000	B			
...4	0S801			Y	6853008400	SW PUSH KDC-A04-10B-H2 HUA-JIE	EA	1.00000	N	S		
...4	0TCO1			Y	6631010022	TEST PIN 1P D2.36xL14.3 JWT	EA	1.00000	N			
...4	0T401			Y	6135000801	XFRMR HOR DRIVE THD-1008A EI19	EA	1.00000	N			
...4	0T402	S0		Y	6133070110	FBT TFB-7011 FEA976 SAMPO	EA	1.00000	N	S		
...4	0T402	S1		Y	6133070160	FBT TFB-7016 CF1707 LIEN CHANG	EA	1.00000	N	S		
...4	0T403			Y	6111606132	COIL CHOKE 60uH K DR4W14x15C5A	EA	1.00000	N			
...4	0T404			Y	6119007400	COIL LINEAR TLN-1074 9.60uH	EA	1.00000	N			
...4	0T405			Y	6136001300	XFRMER DYNAMIC TDF-1013 EI19	EA	1.00000	N			
...4	0T801			Y	6138001601	LINE FILTER TLF-1016A 16mHET28	EA	1.00000	N	S		
...4	0T802	S1		Y	6131052031	XFRMER PWR TPW-1076A ERL35 HJC	EA	1.00000	N	S		
...4	0T802	S0		Y	6131052021	XFRMER PWR TPW-1076A ERL35 LSE	EA	1.00000	N			
...4	0X701			Y	6449000719	CRYSTAL 8MHz TOP8.0 CG710PIN=4	EA	1.00000	N	S		
...4	0Z801	S0		Y	6852501037	SPARK GAP KSA-501-N-A T52 KUBO	EA	1.00000	N			
...4	0Z801	S1		Y	6852501137	SPARK GAP DSP-501N-A21F T52	EA	1.00000	B			
...4	00GND			Y	6714010550-60	HRNS 1P 170/170 BD144 4.3/TNx2	EA	1.00000	N			
...4	000G2			Y	6714010570-02	HRNS 1P 310 1032#22GRAY +1CORE	EA	1.00000	N			
...4	5C01T			Y	7740100103	WIRING CABLE TIES	8440000030	EA	1.00000	N		
..3	05C01			N	7748704600-0B	CABLET BRACKET (BRIDGE)	8340000738	EA	1.00000	N		
..3	05C02			N	7746202860-0A	SHIELD COVER(BOTTOM)(S1770NST)	8140001079	EA	1.00000	N		
..3	05C03			N	7746202870-0C	SHIELD COVER(TOP)(S1770NST)	8340002354	EA	1.00000	N		
..3	05C04			N	7742605400-0B	POWER BAR 14" 15"	8340001611	EA	1.00000	N		
..3	1480M			N	7742603591	SPACER SUPPORT	8440002029	EA	6.00000	N		
..3	5C01N			Y	7130330081	TRIANGLE SCREW M3X8	8440000016	EA	1.00000	N		
..3	5C01P			Y	7131430081	SCREW+WASHER M3*8	8440000079	EA	1.00000	N		
..3	5C01Q			Y	7131440081	SCREW+WASHER M4*8	8440000079	EA	2.00000	N		
..3	5C01R			Y	7742403910	NAME PLATE (BRIDGE)	8440002038	EA	1.00000	N		
..3	5C01S			Y	7740100101	CABLE TIES	8440000030	EA	2.00000	N		
1		0		N	5192403357	PACKING S1770NST(99)-E2(C) MAX	EA	1.00000	B			
0,2	0P801			N	6716004818	PWR CBL 1800WALL#5000 LONGWELL	EA	1.00000	N	S		
0,2	0Y001			N	7730113452-0A	MANUAL MAXDATA SPHINXPLUS17"	EA	1.00000	N			
0,2	01P11			N	7749205382-0A	CARTON MAXDATA S1770NST(C)	8340002450	EA	1.00000	N		
0,2	01P21			Y	7749102440-0A	EPS(17"SPHINX 384sets) T & B	8240000908	PR	1.00000	N		
0,2	01P31			N	7749000880-0B	PE BAG FOR ALL MODELS 1000X900	8340001220	EA	1.00000	N		
0,2	01P51			Y	1240000402	TAPE,EARTH-713C (914M/RS)	RS	.00200	N			
0,2	01P71			N	1240000252	FILM STRETCH WRAP	RL	.00150	N			
0,2	01P81			N	1240000267-0A	FOUR-WAY PALLET 1150x990x115	8340001946	EA	.06250	N		
0,2	01P82			N	1240000475	angular cardboard 1840x2	8340001864	EA	.25000	N		
0,2	01P91			N	1240000613	CORRUGATED PAPER	PS	.12500	N			
0,2	02B01			N	7735424205-0A	MODEL LABEL MAXDATA S1770NST	8440003640	EA	1.00000	N		
1 RI		0			LITE-ON	TECHNOLOGY CORP	.	PAGE: 26				
0					BOM	1 PERT USAGE LISTING	10/16/00	11.01.12				
0 P/	47065	160	23		Model Name:	S1770NST(99)-E2(C) MAXDATA	QTY: 1	U/M: SET				

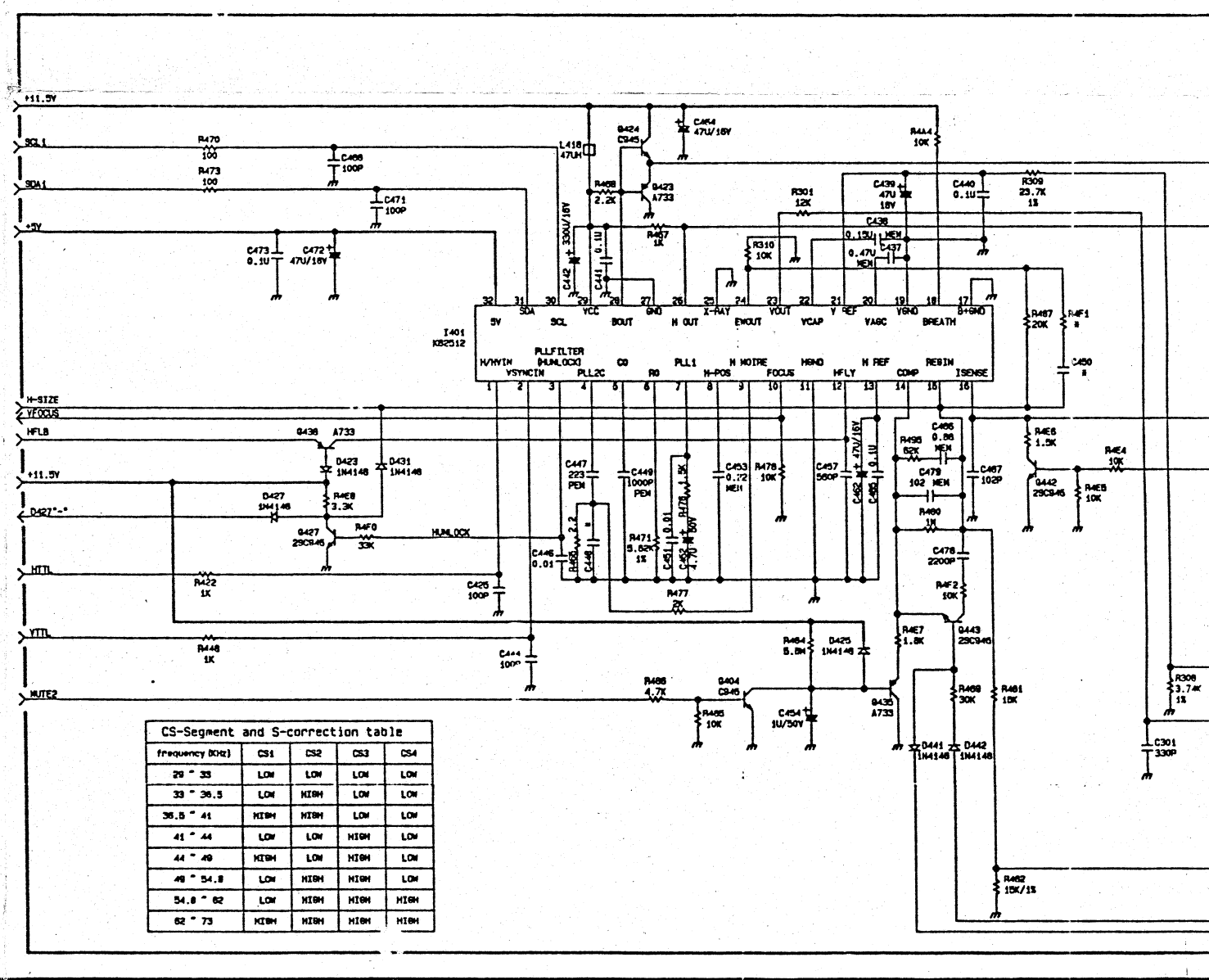
Lev	Cktld	G1	G2	APR	Item No.	Description	Drawing No	UM	Usage	Qty	B/N	S
0,2	02P01			N	7735421780-0A	PACKING LABEL FOR A.A. LING	8440003191	EA	2.00000	N	S	
0					*** E	nd Of Report ***						


P801
F801 T4AH/250V
C801 470P 400V
C802 470P 400V
C803 0.22U 250V MEF
R801 470K 1/2W
T801
C816 0.22U 250V MEF
C820 2200P 400V
C823 2200P 400V
R830 470K 1/4W MOF
R847 18K 2W
Q801 KSP44
Q805 C945
R848 91
D827 1N4148
D828 1N4148
R804 NTC 10/1A
R803 8 270V PTC
D804 1N4006
D805 1N4006
D806 1N4006
D807 1N4006
C805 4700P 400V
R818 0.27 1W
C809 0.01U 1KV
C810 0.01U 1KV
C808 0.01U X7R
C807 0.01U X7R
D808 1N4936
D809 1N4936
L814 5mm
L805 5mm
L810 1.5T
L815 0.75T
D805 UF1004M
R809 4.7 1/4W
C804 100U 25V
T802
L813 1.5T
D802 100P/1KVX7R
D810 UF2004
L812 5mm
D817 RL4A
L802
C836 100P 1KV
C833 100U 160V
C834 0.01U 500V
C857 470U 16V
CR56 0.01U 50V
L803 5mm
-11.5V
L811 5mm
D813 SF36S
C832 100P 1KV
C824 330U 100V
80V
D814 SF34S
L809 5mm
C821 330P 500V X7R
C838
C825 2200U 16V
R836 220
Q813 KSB772
R836 330 1W
TP001
C831 470U 16V
+11.5V
R840 22/3W
VCC
Q814
L801 5mm
L808 5mm
D815 UF2004
C822 330P 500V X7R
R837 1K
Q814 C945
R874 10K
L816 5mm
I802 78L08
C841 47U 25V
C842 47U 25V
8V
Degaussing Coil
P802
P802A
C848 100P 400V
RL801
Z801 500V
D812 1N4002
R832 51K
ZD803 11A
C860 47U 25V
S801
D821 1N4148
D811 1N4148
R816 51K
C829 1U 100V
R805 1.2M 1/4W MOF
R807 47K 1W
C827 10U 50V
D807 1N4148
D8
R827 1K
R867 10K
Q802 C945
R802 20K 1%
C810 0.47U 50V
R808 470
VR801 1K B+.ADJ
R820 0.1K
R823 2.4K 1%
C818 0.1U 50V
C811 0.1U 50V
C812 33U 50V
I801 3843A
R817 20K
C817 1000P 50V
R819 100K
D825 A733
D810 1N4148
R828 1K
C826 1U 50V
C814 4700P 50V PEN
D824 1N4148
R816 47
R811 150 1/4W
R661 47
D825 1N4148
R812 20K
R813 0.18 2W
R814 430
Q803 7N60A
ZD807 220
Q804 A733
C813 820P 50V
R842 430 1/2W
R843 430 1/2W
R849 68 1/4W
I804 78L05
C837 47U 16V
D819
D816
R833 560
Q811 KA928A
C826 1000U 16V
R834 390
R838 4.7K
R841 10K
Q812 C945
R826 150
C815 0.01U
P903
P/S SYNC
D824 1N4148
R816 47
R877 560
D822 A733
R878 1K
R879 100K
I806 LTV817D
Q821 C945
R875 2K
R873 4.7K
R880 10K
R871 680
R870 1K
R650 J.W.
R868 2K
+5V
R872 33K
D820 A733
C806 1U/50V
I806 LTV817D
Q819 C945
R869 4.7K
R856 10K
3W ONLY
LD701
LD701-G
LD701-A
D820 1N4148
Q815 A733
ZD802 5.3V
D823 A733
R854 J.W.
R865 3.01K 1%
48V
R851 4.7K
R816 C945
R852 1.2K
R853 11K
C830 47U 16V
C859 10U 50V
R857 30K
80V
PE04
+5V
OFF
STBY
ROT.
R123 910
Q121 2SC2328A
R101 1
C122 0.01U
P121
ROTATION Coil
D121 1N4148
R102 1
Q122 2SA928A
Q123 KSC945
R121 3.9K
R122 75
7V
8.3V
R859 0.56 1W
R858 0.56 1W
R793 4.7K
R791 4.7K
R719 6.81K 1%
R743 6.81K 1%
R748 4.7K
R751 4.7K
R784 4.7K
R785 4.7K
R744 4.7K
C702 0.1U
ZD710 5.6B
C701 220U 16V
D705 1N4148
R734 100
C705 0.1U
S8120
C710 22U 16V
R735 4.7K
R787 4.7K
R750 18K
R728 4.7K
R729 2.2K
R730 4.7K
R731 4.7K
R732 4.7K
R712 4.7K 1%
R739 4.7K 1%
D706 1N4148
R780 4.7K
R760 4.7K
R771 4.7K
R773 4.7K
R775 4.7K
R703 100
R704 100
C703 10P
C704 100P
ZD701 5.6B
ZD702 5.6B
YSYNC
HSYNC
LD701-A
LD701-G
DE8
CS4
CS3
CS2
CS1
R707 560
R706 560
BURN-IN
ZD709 5.6B
R770 10K
R772 10K
R774 10K
R778 10K
R711 10K/1%
R742 10K/1%
R722 1.2K
R723 4.7K
R766 24K
VIN
HTN
VDD
VSS
IPB
LEDA
LEDG
CS6
CS4
CS3
CS2
CS1
BURN-IN
NC
UP/F2
DOWN/F1
I/O
PLUG
SCL
SDA
WP
MUTE2
YTTL
HTTL
R-BAIN
CONT.
B-BAIN
G-BAIN
H-LIN
H-SIZE
B6
ROT
PWM
MUTE1
STBY
OFF
SCL1
SDA1
RESET
XTAL
XTAL
NC
I701
NT6661AU
R758 10K
Q701 C945
C711 27P
X701 8MHZ
C712 27P
ZD707 5.6B
ZD708 5.6B
C706 1U/50V
C707 1U/50V
C718 1U/50V
C721 10U/50V
R703
C722 1U/50V
C723 22U/16V
C724 1U/50V
C725 1U/50V
R777 2.2K
C736 0.1U 50V
C715 10U 50V
R733 4.7K
R757 33
R750 33
D706 1N4148
D707 1N4148
MUTE2
D308 (-)
R741 6.81K 1%
R740 6.81K 1%
S704 F2
S703 UP
S702 DOWN
S701 F1
C713 0.1U
C715 0.1U
PLUG
ZD706 5.6B
C732 0.01U
SCL
ZD704 5.6B
R761 33
YSYNC
PC3V
+11.5V
R715 470
D701 1N4148
ZD705 5.1B
C719 0.1U
C720 10U 50V
R760 4.7K
R759 4.7K
I702 24LC21
C728 1000P
C730 68P
C731 68P
SDA
ZD703 5.6B
R762 33
S705
ATE
FACTORY
DDC
NORMAL
I703 24LC04B/P
A0
A1
A2
GND
VCC
WP
SCL
SDA
P502A
P502B
P903A
C847 470P
C533 0.01U 500V
C507 0.75U
L509
L507
L701
L702
L703
L704
3.5mm
100P
R709 10





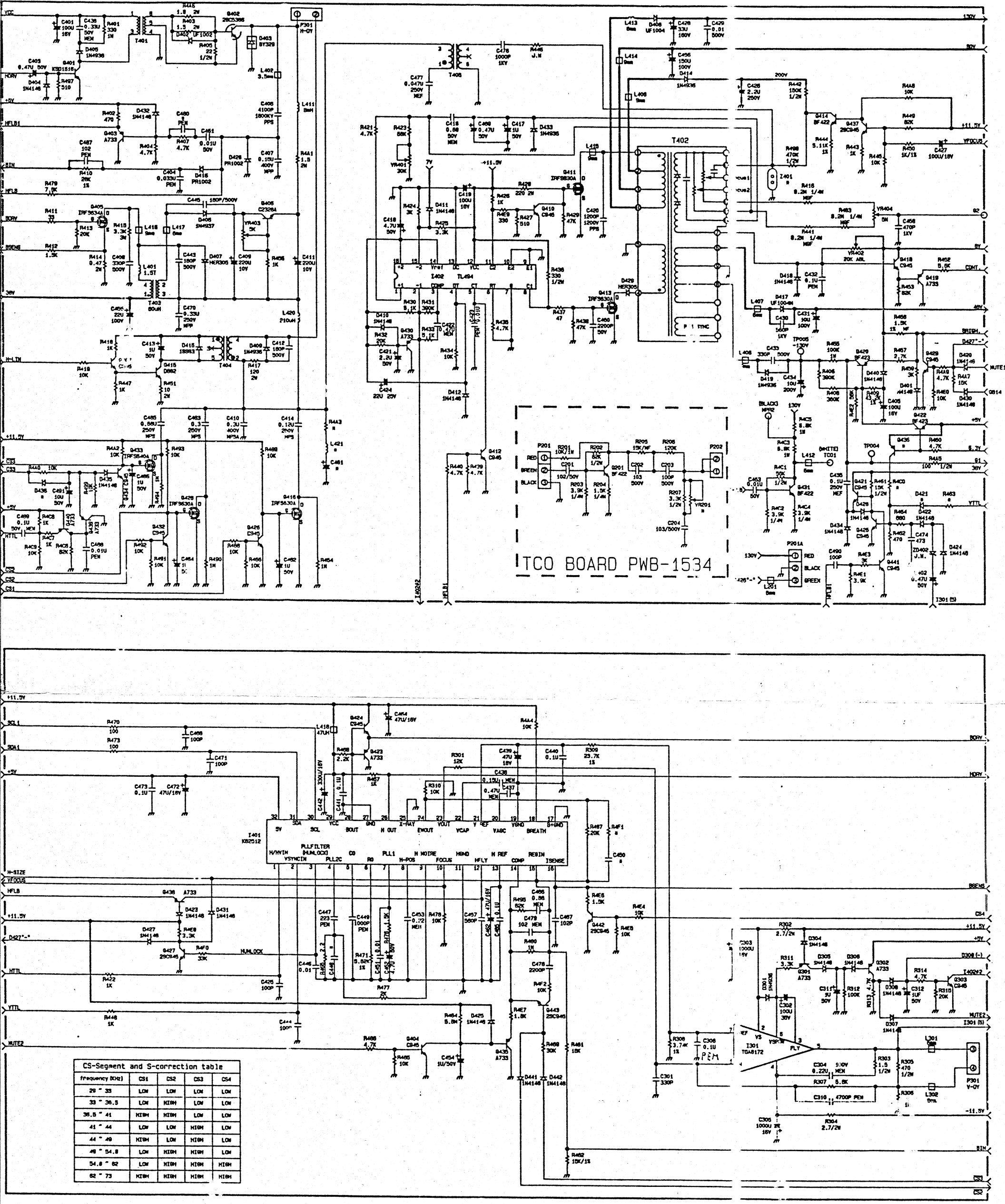




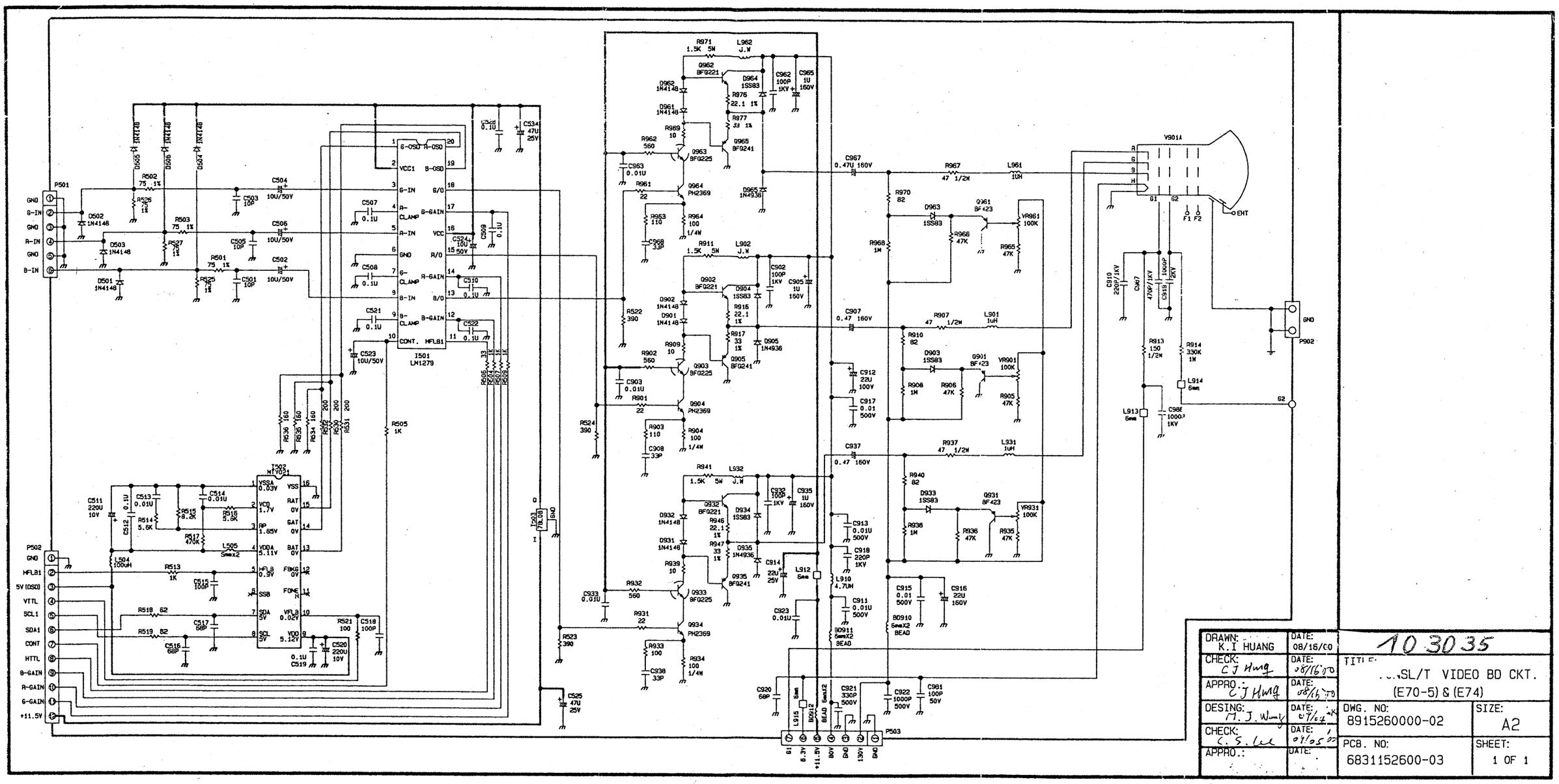
CS-Segment and S-correction table

frequency (KHz)	CS1	CS2	CS3	CS4
29 ~ 33	LOW	LOW	LOW	LOW
33 ~ 36.5	LOW	HIGH	LOW	LOW
36.5 ~ 41	HIGH	HIGH	LOW	LOW
41 ~ 44	LOW	LOW	HIGH	LOW
44 ~ 49	HIGH	LOW	HIGH	LOW
49 ~ 54.8	LOW	HIGH	HIGH	LOW
54.8 ~ 62	LOW	HIGH	HIGH	HIGH
62 ~ 73	HIGH	HIGH	HIGH	HIGH

DRAWN : BETTY WU	DATE : 08/28' 2
CHECK : C J Hung	DATE : 08/28'
APPRO : J. Chang	DATE : 8/
DESING : M. J. Wu	DATE : 8/30
CHECK : C. S. Lee	DATE : 8/30 '00
APPRO : Robert Shi	DATE : 8/30/


TCO BOARD PWB-1534
T402
I402 TL494
I401 KB2512
I301 TDA8172
CS-Segment and S-correction table
frequency (KHz) | CS1 | CS2 | CS3 | CS4
29 ~ 33 | LOW | LOW | LOW | LOW
33 ~ 36.5 | LOW | HIGH | LOW | LOW
36.5 ~ 41 | HIGH | HIGH | LOW | LOW
41 ~ 44 | LOW | LOW | HIGH | LOW
44 ~ 49 | HIGH | LOW | HIGH | LOW
49 ~ 54.8 | LOW | HIGH | HIGH | LOW
54.8 ~ 62 | LOW | HIGH | HIGH | HIGH
62 ~ 73 | HIGH | HIGH | HIGH | HIGH

DRAWN : BETTY WU	DATE : 08/28' 2K		103035
CHECK : C J Hung	DATE : 08/28 '00	TITLE :	S1770NSL/T M/B
APPRO : J.Chang	DATE : 8/28 '2K	DWG. NO :	8915190000-03
DESING : M. J. Wang	DATE : 8/30 '2K	PCB. NO :	6831151900-02 6831153900-02
CHECK : C. S. Lee	DATE : 8/30 '00	SIZE : A1	SHEET : 1 OF 1
APPRO : Robert Shi	DATE : 8/30/'00		



DRAWN: K.I HUANG	DATE: 08/16/00	10 3035	
CHECK: C J Hung	DATE: 08/16/00	TITLE: ...SL/T VIDEO BD CKT. (E70-5) & (E74)	
APPRO.: C J Hung	DATE: 08/16/00		
DESING: M. J. Wang	DATE: 07/24/00	DWG. NO: 8915260000-02	SIZE: A2
CHECK: C. S. Lee	DATE: 09/05/00	PCB. NO: 6831152600-03	SHEET: 1 OF 1
APPRO.:	DATE:		